

# Add and Subtract (A) Answers

Find each sum or difference.

3	9	13	1	10	2	4	6	9	7
<u>+2</u>	<u>+6</u>	<u>-8</u>	<u>+1</u>	<u>-7</u>	<u>+4</u>	<u>+8</u>	<u>+6</u>	<u>+5</u>	<u>-6</u>
5	15	5	2	3	6	12	12	14	1
1	9	1	3	1	8	7	6	13	12
<u>+5</u>	<u>+4</u>	<u>+2</u>	<u>+6</u>	<u>+7</u>	<u>+5</u>	<u>+7</u>	<u>+8</u>	<u>-6</u>	<u>-8</u>
6	13	3	9	8	13	14	14	7	4
15	9	3	9	8	6	9	12	1	5
<u>-6</u>	<u>-5</u>	<u>-2</u>	<u>-3</u>	<u>-6</u>	<u>+9</u>	<u>+5</u>	<u>-5</u>	<u>+5</u>	<u>+9</u>
9	4	1	6	2	15	14	7	6	14
17	11	4	3	9	10	4	6	6	5
<u>-9</u>	<u>-6</u>	<u>+2</u>	<u>-2</u>	<u>-5</u>	<u>-5</u>	<u>+7</u>	<u>-2</u>	<u>-1</u>	<u>+4</u>
8	5	6	1	4	5	11	4	5	9
8	1	17	4	7	9	5	14	12	2
<u>+3</u>	<u>+6</u>	<u>-9</u>	<u>+2</u>	<u>+8</u>	<u>-7</u>	<u>+5</u>	<u>-5</u>	<u>-6</u>	<u>+1</u>
11	7	8	6	15	2	10	9	6	3
11	8	5	5	1	15	2	8	14	15
<u>-6</u>	<u>+4</u>	<u>-1</u>	<u>+2</u>	<u>+9</u>	<u>-7</u>	<u>+2</u>	<u>+8</u>	<u>-6</u>	<u>-8</u>
5	12	4	7	10	8	4	16	8	7
6	3	6	9	3	7	7	8	6	1
<u>+4</u>	<u>+2</u>	<u>+4</u>	<u>-6</u>	<u>+1</u>	<u>+4</u>	<u>+4</u>	<u>-4</u>	<u>+9</u>	<u>+9</u>
10	5	10	3	4	11	11	4	15	10
3	3	8	14	4	11	8	7	13	17
<u>+3</u>	<u>-1</u>	<u>+3</u>	<u>-9</u>	<u>-3</u>	<u>-2</u>	<u>+7</u>	<u>-3</u>	<u>-5</u>	<u>-8</u>
6	2	11	5	1	9	15	4	8	9
2	14	7	6	5	1	3	5	15	4
<u>+3</u>	<u>-7</u>	<u>-5</u>	<u>-2</u>	<u>+1</u>	<u>+8</u>	<u>+8</u>	<u>-1</u>	<u>-9</u>	<u>+8</u>
5	7	2	4	6	9	11	4	6	12
1	7	4	6	9	2	1	8	11	14
<u>+1</u>	<u>+3</u>	<u>+8</u>	<u>+1</u>	<u>+9</u>	<u>+3</u>	<u>+1</u>	<u>+3</u>	<u>-9</u>	<u>-9</u>
2	10	12	7	18	5	2	11	2	5

<h2 style="margin: 0;">Adding and Subtracting Fractions (A) Answers</h2>
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Find the value of each expression in lowest terms.

$$1. \frac{7}{4} - \frac{8}{5} \\ = \frac{3}{20}$$

$$5. \frac{3}{2} - \frac{9}{7} \\ = \frac{3}{14}$$

$$9. \frac{4}{3} - \frac{2}{5} \\ = \frac{14}{15}$$

$$2. \frac{23}{2} + \frac{9}{4} \\ = \frac{55}{4} = 13\frac{3}{4}$$

$$6. \frac{7}{10} + \frac{2}{5} \\ = \frac{11}{10} = 1\frac{1}{10}$$

$$10. \frac{5}{2} + \frac{2}{3} \\ = \frac{19}{6} = 3\frac{1}{6}$$

$$3. \frac{8}{3} - \frac{3}{2} \\ = \frac{7}{6} = 1\frac{1}{6}$$

$$7. \frac{14}{5} - \frac{4}{3} \\ = \frac{22}{15} = 1\frac{7}{15}$$

$$11. \frac{9}{8} + \frac{5}{6} \\ = \frac{47}{24} = 1\frac{23}{24}$$

$$4. \frac{5}{2} - \frac{13}{12} \\ = \frac{17}{12} = 1\frac{5}{12}$$

$$8. \frac{17}{7} - \frac{5}{3} \\ = \frac{16}{21}$$

$$12. \frac{9}{7} - \frac{5}{6} \\ = \frac{19}{42}$$

# Multiplication Facts to 144 (F) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$	$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$	$\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$	$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$
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$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$
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$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$
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$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$	$\begin{array}{r} 0 \\ \times 10 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$
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$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$
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$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 0 \\ \times 11 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$
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$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$
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$\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$
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$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$
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$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$
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Multiplying and Dividing Fractions (A) Answers
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Find the value of each expression in lowest terms.

$$1. \frac{1}{2} \times \frac{5}{4} \\ = \frac{5}{8}$$

$$6. \frac{1}{4} \times \frac{5}{3} \\ = \frac{5}{12}$$

$$11. \frac{10}{3} \times \frac{11}{6} \\ = \frac{55}{9} = 6\frac{1}{9}$$

$$2. \frac{1}{6} \div \frac{8}{11} \\ = \frac{11}{48}$$

$$7. \frac{11}{2} \div \frac{1}{2} \\ = 11$$

$$12. \frac{1}{2} \div \frac{1}{2} \\ = 1$$

$$3. \frac{1}{3} \div \frac{13}{9} \\ = \frac{3}{13}$$

$$8. \frac{4}{3} \div \frac{11}{12} \\ = \frac{16}{11} = 1\frac{5}{11}$$

$$13. \frac{14}{9} \times \frac{7}{10} \\ = \frac{49}{45} = 1\frac{4}{45}$$

$$4. \frac{13}{4} \div \frac{1}{2} \\ = \frac{13}{2} = 6\frac{1}{2}$$

$$9. \frac{1}{3} \times \frac{20}{9} \\ = \frac{20}{27}$$

$$14. \frac{15}{8} \times \frac{7}{6} \\ = \frac{35}{16} = 2\frac{3}{16}$$

$$5. \frac{17}{6} \div \frac{3}{5} \\ = \frac{85}{18} = 4\frac{13}{18}$$

$$10. \frac{13}{7} \times \frac{14}{11} \\ = \frac{26}{11} = 2\frac{4}{11}$$

$$15. \frac{3}{2} \div \frac{4}{9} \\ = \frac{27}{8} = 3\frac{3}{8}$$

Division Facts (A) Answers
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Find each quotient.

$54 \div 6 = 9$	$32 \div 8 = 4$	$12 \div 3 = 4$	$15 \div 3 = 5$
$24 \div 3 = 8$	$40 \div 8 = 5$	$9 \div 3 = 3$	$24 \div 4 = 6$
$9 \div 1 = 9$	$6 \div 6 = 1$	$7 \div 1 = 7$	$5 \div 5 = 1$
$12 \div 6 = 2$	$28 \div 4 = 7$	$14 \div 2 = 7$	$54 \div 9 = 6$
$10 \div 5 = 2$	$56 \div 8 = 7$	$6 \div 1 = 6$	$7 \div 7 = 1$
$35 \div 7 = 5$	$27 \div 3 = 9$	$3 \div 1 = 3$	$16 \div 8 = 2$
$63 \div 7 = 9$	$4 \div 2 = 2$	$20 \div 5 = 4$	$40 \div 5 = 8$
$3 \div 3 = 1$	$42 \div 7 = 6$	$21 \div 7 = 3$	$6 \div 3 = 2$
$18 \div 3 = 6$	$45 \div 5 = 9$	$14 \div 7 = 2$	$36 \div 4 = 9$
$49 \div 7 = 7$	$56 \div 7 = 8$	$30 \div 5 = 6$	$28 \div 7 = 4$
$30 \div 6 = 5$	$25 \div 5 = 5$	$5 \div 1 = 5$	$8 \div 8 = 1$
$2 \div 1 = 2$	$72 \div 8 = 9$	$24 \div 6 = 4$	$48 \div 8 = 6$
$42 \div 6 = 7$	$18 \div 6 = 3$	$24 \div 8 = 3$	$21 \div 3 = 7$
$6 \div 2 = 3$	$12 \div 4 = 3$	$4 \div 4 = 1$	$15 \div 5 = 3$
$1 \div 1 = 1$	$64 \div 8 = 8$	$45 \div 9 = 5$	$8 \div 2 = 4$
$35 \div 5 = 7$	$36 \div 6 = 6$	$48 \div 6 = 8$	$10 \div 2 = 5$
$16 \div 4 = 4$	$20 \div 4 = 5$	$4 \div 1 = 4$	$8 \div 1 = 8$
$8 \div 4 = 2$	$16 \div 2 = 8$	$32 \div 4 = 8$	$63 \div 9 = 7$
$81 \div 9 = 9$	$36 \div 9 = 4$	$18 \div 2 = 9$	$72 \div 9 = 8$
$18 \div 9 = 2$	$2 \div 2 = 1$	$12 \div 2 = 6$	$9 \div 9 = 1$
$27 \div 9 = 3$	$18 \div 6 = 3$	$9 \div 3 = 3$	$54 \div 9 = 6$
$40 \div 5 = 8$	$24 \div 8 = 3$	$27 \div 9 = 3$	$72 \div 8 = 9$
$56 \div 8 = 7$	$2 \div 1 = 2$	$8 \div 8 = 1$	$12 \div 3 = 4$
$4 \div 1 = 4$	$20 \div 5 = 4$	$15 \div 5 = 3$	$10 \div 2 = 5$
$45 \div 5 = 9$	$16 \div 8 = 2$	$32 \div 4 = 8$	$18 \div 9 = 2$

Operations with Fractions (A) Answers
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Calculate the answer to each question.

$$1. \quad \frac{7}{3} \times \frac{13}{8}$$

$$\frac{91}{24}$$

$$2. \quad \frac{9}{8} + \frac{5}{7}$$

$$\frac{103}{56}$$

$$3. \quad \frac{9}{3} - \frac{1}{6}$$

$$\frac{17}{6}$$

$$4. \quad \frac{23}{14} + \frac{20}{19}$$

$$\frac{717}{266}$$

$$5. \quad \frac{20}{5} - \frac{15}{14}$$

$$\frac{41}{14}$$

$$6. \quad \frac{5}{11} \div \frac{26}{11}$$

$$\frac{5}{26}$$

$$7. \quad \frac{1}{7} \times \frac{29}{18}$$

$$\frac{29}{126}$$

$$8. \quad \frac{43}{19} \div \frac{2}{3}$$

$$\frac{129}{38}$$

$$9. \quad \frac{37}{7} - \frac{5}{2}$$

$$\frac{39}{14}$$

$$10. \quad \frac{2}{5} + \frac{2}{5}$$

$$\frac{4}{5}$$

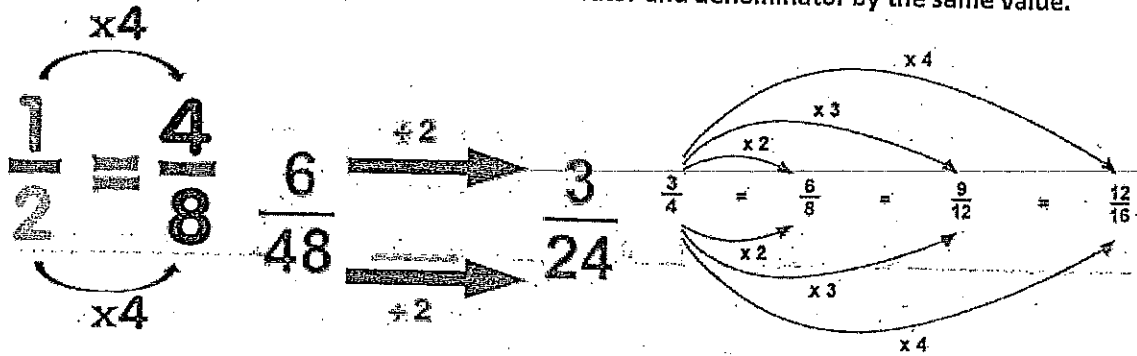
## All Operations (A) Answers

Find each sum, difference, product, or quotient.

14	14	3	12	5	24	9	8	63	2
$\frac{-11}{3}$	$\frac{-8}{6}$	$\frac{+11}{14}$	$\frac{-4}{8}$	$\frac{-3}{2}$	$\frac{\div 6}{4}$	$\frac{-1}{8}$	$\frac{\times 12}{96}$	$\frac{\div 9}{7}$	$\frac{\times 12}{24}$
5	4	66	4	8	11	12	84	7	13
$\frac{+9}{14}$	$\frac{\div 4}{1}$	$\frac{\div 11}{6}$	$\frac{+11}{15}$	$\frac{\div 2}{4}$	$\frac{-5}{6}$	$\frac{\times 5}{60}$	$\frac{\div 12}{7}$	$\frac{\times 7}{49}$	$\frac{-2}{11}$
1	77	2	10	10	24	19	9	5	22
$\frac{\times 4}{4}$	$\frac{\div 7}{11}$	$\frac{\times 2}{4}$	$\frac{\times 10}{100}$	$\frac{\times 6}{60}$	$\frac{\div 4}{6}$	$\frac{-10}{9}$	$\frac{+9}{18}$	$\frac{\times 8}{40}$	$\frac{-11}{11}$
16	2	2	11	14	19	8	7	6	19
$\frac{-9}{7}$	$\frac{+3}{5}$	$\frac{\div 1}{2}$	$\frac{-7}{4}$	$\frac{-7}{7}$	$\frac{-12}{7}$	$\frac{+5}{13}$	$\frac{+3}{10}$	$\frac{\div 2}{3}$	$\frac{-10}{9}$
36	8	7	7	7	7	4	12	8	5
$\frac{\div 12}{3}$	$\frac{-7}{1}$	$\frac{+2}{9}$	$\frac{-4}{3}$	$\frac{\times 9}{63}$	$\frac{\times 1}{7}$	$\frac{+1}{5}$	$\frac{\times 5}{60}$	$\frac{+5}{13}$	$\frac{+12}{17}$
2	16	7	3	5	3	36	7	22	4
$\frac{+11}{13}$	$\frac{\div 8}{2}$	$\frac{+1}{8}$	$\frac{+5}{8}$	$\frac{+2}{7}$	$\frac{+8}{11}$	$\frac{\div 4}{9}$	$\frac{\times 12}{84}$	$\frac{-11}{11}$	$\frac{+9}{13}$
16	9	10	18	17	12	9	6	3	5
$\frac{\div 4}{4}$	$\frac{+3}{12}$	$\frac{-6}{4}$	$\frac{\div 9}{2}$	$\frac{-11}{6}$	$\frac{\div 6}{2}$	$\frac{-6}{3}$	$\frac{+3}{9}$	$\frac{+8}{11}$	$\frac{+11}{16}$
2	10	8	5	10	1	11	9	60	9
$\frac{+6}{8}$	$\frac{-8}{2}$	$\frac{\div 8}{1}$	$\frac{+2}{7}$	$\frac{\times 8}{80}$	$\frac{+11}{12}$	$\frac{-10}{1}$	$\frac{+4}{13}$	$\frac{\div 10}{6}$	$\frac{-2}{7}$
11	30	6	14	8	16	9	23	10	6
$\frac{+9}{20}$	$\frac{\div 5}{6}$	$\frac{+8}{14}$	$\frac{-7}{7}$	$\frac{+10}{18}$	$\frac{-6}{10}$	$\frac{+11}{20}$	$\frac{-12}{11}$	$\frac{\times 1}{10}$	$\frac{+7}{13}$
49	9	12	10	8	4	3	18	2	2
$\frac{\div 7}{7}$	$\frac{+9}{18}$	$\frac{+10}{22}$	$\frac{-8}{2}$	$\frac{\times 4}{32}$	$\frac{\times 7}{28}$	$\frac{\times 6}{18}$	$\frac{-7}{11}$	$\frac{+2}{4}$	$\frac{+12}{14}$

# Equivalent Fractions

To find an equivalent fraction multiply or divide the numerator and denominator by the same value.



Name three equivalent fractions to the one given:

★ Answers may vary!

<p>1. <math>\frac{4}{5}</math>    <math>\frac{8}{10}, \frac{12}{15}, \frac{16}{20}, \frac{20}{25}, \frac{40}{50}</math> etc.</p>	<p>2. <math>\frac{10}{15}</math> <math>\frac{20}{30}, \frac{30}{45}, \frac{40}{60}, \frac{50}{75}, \frac{60}{90}</math> etc.</p>
<p>3. <math>\frac{1}{7}</math> <math>\frac{2}{14}, \frac{3}{21}, \frac{4}{28}, \frac{5}{35}, \frac{6}{42}, \frac{10}{70}</math> etc.</p>	<p>4. <math>\frac{16}{40}</math>    <math>\frac{4}{10}, \frac{2}{5}, \frac{8}{20}, \frac{32}{80}</math> <math>\frac{48}{120}</math> etc.</p>
<p>5. <math>\frac{12}{30}</math>    <math>\frac{4}{10}, \frac{2}{5}, \frac{6}{15},</math> <math>\frac{24}{60}, \frac{36}{90}, \frac{48}{120}</math> etc.</p>	<p>6. <math>\frac{6}{8}</math>    <math>\frac{3}{4}, \frac{12}{16}, \frac{18}{24}, \frac{24}{32},</math> <math>\frac{30}{40}</math> etc.</p>



## Add and Subtract (B) Answers

Find each sum or difference.

9	15	12	8	16	6	3	5	4	5
<u>+2</u>	<u>-6</u>	<u>-8</u>	<u>+9</u>	<u>-7</u>	<u>+5</u>	<u>+3</u>	<u>+6</u>	<u>+6</u>	<u>+9</u>
11	9	4	17	9	11	6	11	10	14
7	6	6	3	7	1	4	9	4	9
<u>-4</u>	<u>-1</u>	<u>+7</u>	<u>+4</u>	<u>+2</u>	<u>+7</u>	<u>+4</u>	<u>-4</u>	<u>+8</u>	<u>-2</u>
3	5	13	7	9	8	8	5	12	7
12	2	9	11	6	5	5	9	8	9
<u>-5</u>	<u>+9</u>	<u>-1</u>	<u>-7</u>	<u>+6</u>	<u>+6</u>	<u>-1</u>	<u>+1</u>	<u>+7</u>	<u>-2</u>
7	11	8	4	12	11	4	10	15	7
14	9	13	10	8	9	11	8	8	6
<u>-6</u>	<u>-1</u>	<u>-5</u>	<u>-2</u>	<u>-1</u>	<u>+6</u>	<u>-4</u>	<u>-6</u>	<u>+7</u>	<u>+3</u>
8	8	8	8	7	15	7	2	15	9
6	6	17	2	5	7	11	8	6	6
<u>+1</u>	<u>+4</u>	<u>-9</u>	<u>+6</u>	<u>+7</u>	<u>-2</u>	<u>-4</u>	<u>-1</u>	<u>+9</u>	<u>+7</u>
7	10	8	8	12	5	7	7	15	13
12	6	11	9	7	7	8	9	15	2
<u>-7</u>	<u>-5</u>	<u>-2</u>	<u>+3</u>	<u>+2</u>	<u>+8</u>	<u>+4</u>	<u>-1</u>	<u>-8</u>	<u>+4</u>
5	1	9	12	9	15	12	8	7	6
1	18	6	10	6	11	9	3	2	17
<u>+7</u>	<u>-9</u>	<u>+9</u>	<u>-2</u>	<u>+3</u>	<u>-6</u>	<u>-7</u>	<u>+2</u>	<u>+2</u>	<u>-9</u>
8	9	15	8	9	5	2	5	4	8
14	9	16	2	2	3	7	7	6	16
<u>-6</u>	<u>-6</u>	<u>-8</u>	<u>+6</u>	<u>+1</u>	<u>+6</u>	<u>-3</u>	<u>-2</u>	<u>-3</u>	<u>-8</u>
8	3	8	8	3	9	4	5	3	8
9	4	3	11	1	12	9	13	16	2
<u>-8</u>	<u>+8</u>	<u>-2</u>	<u>-9</u>	<u>+5</u>	<u>-6</u>	<u>-8</u>	<u>-8</u>	<u>-8</u>	<u>+5</u>
1	12	1	2	6	6	1	5	8	7
7	8	9	7	10	7	11	3	8	5
<u>+5</u>	<u>+6</u>	<u>+6</u>	<u>-2</u>	<u>-6</u>	<u>+6</u>	<u>-3</u>	<u>+2</u>	<u>-5</u>	<u>+4</u>
12	14	15	5	4	13	8	5	3	9

ANSWER KEY

## Decimal Addition

Rewrite each problem vertically, and solve.

a.  $1.42 + 2.157 = \underline{3.577}$

b.  $3.918 + 9.2 = \underline{13.118}$

c.  $31.908 + 0.054 = \underline{31.962}$

d.  $72 + 8.039 = \underline{80.039}$

e.  $23.102 + 231.2 = \underline{254.302}$

f.  $87.64 + 0.36 = \underline{88}$

g.  $19.005 + 7.446 = \underline{26.451}$

h.  $288 + 331.148 = \underline{619.148}$

i.  $134.705 + 19.5 = \underline{154.205}$

j.  $8.108 + 136.8 = \underline{144.908}$

k.  $100.006 + 23.45 = \underline{123.456}$

l.  $877.909 + 359.5 = \underline{1,237.409}$

Multiplication Facts to 144 (E) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$
$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$
$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 11 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$
$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$	$\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$	$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$	$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$
$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$	$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$
$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$	$\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$
$\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$	$\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$
$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$
$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$
$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline 0 \end{array}$

Subtracting Decimals (A) Answers
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Calculate each difference.

$$737.303 - 43.866 = 693.437$$

$$275.6 - 6.9 = 268.7$$

$$40.333 - 13.86 = 26.473$$

$$919.241 - 66.6 = 852.641$$

$$226.125 - 7.05 = 219.075$$

$$793.280 - 123.93 = 669.35$$

$$20.59 - 4.368 = 16.222$$

$$786.264 - 7.01 = 779.254$$

$$936.82 - 4.62 = 932.2$$

$$38.844 - 3.4 = 35.444$$

## Division Facts (B) Answers

Find each quotient.

$28 \div 4 = 7$	$56 \div 7 = 8$	$6 \div 6 = 1$	$14 \div 2 = 7$
$14 \div 7 = 2$	$36 \div 4 = 9$	$64 \div 8 = 8$	$6 \div 3 = 2$
$10 \div 5 = 2$	$5 \div 1 = 5$	$54 \div 6 = 9$	$32 \div 8 = 4$
$35 \div 5 = 7$	$7 \div 7 = 1$	$48 \div 8 = 6$	$24 \div 6 = 4$
$15 \div 3 = 5$	$40 \div 8 = 5$	$8 \div 2 = 4$	$12 \div 4 = 3$
$9 \div 9 = 1$	$63 \div 9 = 7$	$3 \div 1 = 3$	$21 \div 7 = 3$
$4 \div 2 = 2$	$2 \div 2 = 1$	$7 \div 1 = 7$	$18 \div 2 = 9$
$48 \div 6 = 8$	$49 \div 7 = 7$	$30 \div 5 = 6$	$27 \div 3 = 9$
$6 \div 1 = 6$	$1 \div 1 = 1$	$72 \div 9 = 8$	$12 \div 2 = 6$
$16 \div 4 = 4$	$16 \div 2 = 8$	$12 \div 6 = 2$	$36 \div 9 = 4$
$36 \div 6 = 6$	$24 \div 4 = 6$	$6 \div 2 = 3$	$21 \div 3 = 7$
$30 \div 6 = 5$	$8 \div 1 = 8$	$42 \div 7 = 6$	$25 \div 5 = 5$
$28 \div 7 = 4$	$81 \div 9 = 9$	$35 \div 7 = 5$	$5 \div 5 = 1$
$63 \div 7 = 9$	$45 \div 9 = 5$	$9 \div 1 = 9$	$18 \div 3 = 6$
$20 \div 4 = 5$	$42 \div 6 = 7$	$3 \div 3 = 1$	$24 \div 3 = 8$
$8 \div 4 = 2$	$4 \div 4 = 1$	$1 \div 1 = 1$	$14 \div 2 = 7$
$16 \div 4 = 4$	$18 \div 2 = 9$	$12 \div 4 = 3$	$5 \div 5 = 1$
$24 \div 3 = 8$	$6 \div 6 = 1$	$36 \div 9 = 4$	$48 \div 6 = 8$
$5 \div 1 = 5$	$56 \div 8 = 7$	$6 \div 3 = 2$	$36 \div 4 = 9$
$7 \div 1 = 7$	$42 \div 6 = 7$	$27 \div 3 = 9$	$6 \div 1 = 6$
$3 \div 1 = 3$	$12 \div 2 = 6$	$18 \div 6 = 3$	$12 \div 6 = 2$
$6 \div 2 = 3$	$45 \div 5 = 9$	$15 \div 5 = 3$	$56 \div 7 = 8$
$10 \div 5 = 2$	$16 \div 2 = 8$	$24 \div 4 = 6$	$8 \div 4 = 2$
$8 \div 2 = 4$	$30 \div 5 = 6$	$32 \div 4 = 8$	$42 \div 7 = 6$
$4 \div 4 = 1$	$14 \div 7 = 2$	$15 \div 3 = 5$	$2 \div 1 = 2$

## Multiplying and Dividing Decimals

No Calculator! Show all work!

1. $5.4 \times 0.07$  $0.378$	2. $5.9 \times 1.2$  $7.08$
3. $68.3 \times 0.15$  $10.245$	4. $3.96 \times 3.3$  $13.068$
5. $9.01 \times 0.4$  $3.604$	6. $0.24 \div 0.8$  $0.3$
7. $6.56 \div 4$  $1.64$	8. $147 \div 0.49$  $300$

## All Operations (B) Answers

Find each sum, difference, product, or quotient.

8	96	4	10	4	10	8	12	6	16
$\times 12$	$\div 12$	$+8$	$-5$	$+6$	$+5$	$-5$	$+4$	$\times 1$	$-6$
96	8	12	5	10	15	3	16	6	10
9	45	14	4	15	10	19	8	77	1
$+9$	$\div 9$	$-3$	$+5$	$-4$	$\times 11$	$-7$	$-7$	$\div 11$	$+7$
18	5	11	9	11	110	12	1	7	8
12	1	72	6	6	4	13	3	10	23
$-2$	$\times 8$	$\div 12$	$+9$	$-4$	$\times 9$	$-8$	$+4$	$+6$	$-11$
10	8	6	15	2	36	5	7	16	12
22	14	66	6	35	2	10	15	8	3
$-11$	$-8$	$\div 6$	$\div 6$	$\div 7$	$+8$	$\times 10$	$-4$	$\times 2$	$+10$
11	6	11	1	5	10	100	11	16	13
24	17	7	4	8	1	3	9	12	22
$\div 4$	$-5$	$\times 7$	$+7$	$\div 4$	$+1$	$+6$	$\div 9$	$+11$	$-11$
6	12	49	11	2	2	9	1	23	11
1	6	14	8	3	18	9	3	12	15
$+7$	$-1$	$-5$	$-4$	$\times 2$	$\div 6$	$\div 9$	$\times 1$	$-4$	$\div 5$
8	5	9	4	6	3	1	3	8	3
17	40	6	72	2	3	24	3	3	22
$-10$	$\div 4$	$+2$	$\div 9$	$\times 10$	$+3$	$\div 12$	$\times 8$	$\times 4$	$-11$
7	10	8	8	20	6	2	24	12	11
8	12	6	20	18	9	55	3	12	8
$+5$	$+9$	$+4$	$-9$	$-12$	$-2$	$\div 5$	$+11$	$-8$	$\times 5$
13	21	10	11	6	7	11	14	4	40
12	10	19	4	3	23	8	12	12	30
$-10$	$-5$	$-7$	$\times 1$	$\times 11$	$-12$	$\times 1$	$\div 4$	$-8$	$\div 3$
2	5	12	4	33	11	8	3	4	10
21	13	5	6	12	9	5	11	7	9
$\div 3$	$-10$	$\times 6$	$+1$	$+10$	$-8$	$+7$	$+4$	$+10$	$\times 2$
7	3	30	7	22	1	12	15	17	18

Order Decimals

Exercises: List each group of numbers in order from least to greatest:

1.) 20, 4, .6, .08

0.08, .6, 4, 20

3.) 1.03, 2.4, .89, .987

.89, .987, 1.03, 2.4

5.) 5.3, 5.12, 5.38, 5.29

5.12, 5.29, 5.3, 5.38

7.) 4, .006, .8, .07

.006, .07, .8, 4

9.) 794, 793.8, 794.65, 794.7

793.8, 794, 794.65, 794.7

11.) 4.2, 4.19, 4.07, 4.3

4.07, 4.19, 4.2, 4.3



## Add and Subtract (C) Answers

Find each sum or difference.

6	14	4	2	4	10	8	13	16	7
<u>-4</u>	<u>-6</u>	<u>+5</u>	<u>+2</u>	<u>+2</u>	<u>-8</u>	<u>+8</u>	<u>-9</u>	<u>-8</u>	<u>+7</u>
2	8	9	4	6	2	16	4	8	14
7	15	8	3	8	8	8	10	4	4
<u>-2</u>	<u>-6</u>	<u>-4</u>	<u>+8</u>	<u>+3</u>	<u>-6</u>	<u>-2</u>	<u>-7</u>	<u>+9</u>	<u>+1</u>
5	9	4	11	11	2	6	3	13	5
8	9	15	14	8	12	7	3	10	4
<u>+6</u>	<u>+4</u>	<u>-6</u>	<u>-9</u>	<u>+4</u>	<u>-9</u>	<u>+3</u>	<u>+8</u>	<u>-8</u>	<u>+3</u>
14	13	9	5	12	3	10	11	2	7
2	8	6	17	4	11	12	8	3	13
<u>+2</u>	<u>+4</u>	<u>+7</u>	<u>-8</u>	<u>+1</u>	<u>-9</u>	<u>-4</u>	<u>+6</u>	<u>+9</u>	<u>-7</u>
4	12	13	9	5	2	8	14	12	6
6	2	4	7	6	6	8	1	8	6
<u>-1</u>	<u>+9</u>	<u>+3</u>	<u>+5</u>	<u>+8</u>	<u>+8</u>	<u>-7</u>	<u>+6</u>	<u>+1</u>	<u>+7</u>
5	11	7	12	14	14	1	7	9	13
4	2	11	14	3	11	9	2	9	7
<u>+7</u>	<u>+3</u>	<u>-7</u>	<u>-5</u>	<u>+6</u>	<u>-4</u>	<u>-1</u>	<u>+9</u>	<u>+1</u>	<u>+3</u>
11	5	4	9	9	7	8	11	10	10
3	8	7	6	10	2	15	6	10	7
<u>+4</u>	<u>+9</u>	<u>+1</u>	<u>-4</u>	<u>-6</u>	<u>+8</u>	<u>-6</u>	<u>-4</u>	<u>-1</u>	<u>+1</u>
7	17	8	2	4	10	9	2	9	8
11	7	8	16	9	8	5	2	6	11
<u>-7</u>	<u>-2</u>	<u>+6</u>	<u>-9</u>	<u>+7</u>	<u>-7</u>	<u>+8</u>	<u>+4</u>	<u>+4</u>	<u>-9</u>
4	5	14	7	16	1	13	6	10	2
14	6	10	7	11	2	18	14	8	10
<u>-9</u>	<u>+7</u>	<u>-7</u>	<u>-1</u>	<u>-7</u>	<u>+4</u>	<u>-9</u>	<u>-8</u>	<u>-7</u>	<u>-5</u>
5	13	3	6	4	6	9	6	1	5
13	6	6	14	4	6	16	17	2	8
<u>-7</u>	<u>-2</u>	<u>+8</u>	<u>-6</u>	<u>+8</u>	<u>-2</u>	<u>-7</u>	<u>-9</u>	<u>+5</u>	<u>+6</u>
6	4	14	8	12	4	9	8	7	14

# ANSWER KEY

## Exponents

Rewrite each expression using exponents.

example:  $7 \times 7 \times 7 \times 7 = 7^4$

- a.  $6 \times 6 \times 6 \times 6 \times 6$        $6^5$       b.  $3 \times 3 \times 3 \times 3$        $3^4$   
c.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$        $2^7$       d.  $9 \times 9$        $9^2$   
e.  $31 \times 31 \times 31 \times 31 \times 31 \times 31$        $31^6$       f.  $14 \times 14 \times 14$        $14^3$

Rewrite each exponent in expanded form.

example:  $5^6 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$

- g.  $8^4 =$   $8 \times 8 \times 8 \times 8$   
h.  $4^9 =$   $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$   
i.  $13^2 =$   $13 \times 13$   
j.  $100^6 =$   $100 \times 100 \times 100 \times 100 \times 100 \times 100$

Rewrite each exponent in standard form.

example:  $6^3 = 216$

- k.  $5^2$        $25$       n.  $9^3$        $729$   
l.  $7^4$        $2,401$       o.  $1^{12}$        $1$   
m.  $4^3$        $64$       p.  $2^6$        $64$

## Division Facts (C) Answers

Find each quotient.

$48 \div 8 = 6$

$20 \div 5 = 4$

$36 \div 6 = 6$

$20 \div 4 = 5$

$28 \div 4 = 7$

$4 \div 2 = 2$

$32 \div 8 = 4$

$72 \div 9 = 8$

$9 \div 3 = 3$

$21 \div 3 = 7$

$24 \div 8 = 3$

$2 \div 1 = 2$

$8 \div 1 = 8$

$25 \div 5 = 5$

$12 \div 6 = 2$

$6 \div 2 = 3$

$3 \div 1 = 3$

$21 \div 7 = 3$

$5 \div 1 = 5$

$42 \div 7 = 6$

$48 \div 8 = 6$

$12 \div 4 = 3$

$10 \div 2 = 5$

$24 \div 8 = 3$

$4 \div 4 = 1$

$9 \div 1 = 9$

$30 \div 6 = 5$

$40 \div 5 = 8$

$63 \div 7 = 9$

$2 \div 2 = 1$

$49 \div 7 = 7$

$35 \div 7 = 5$

$72 \div 8 = 9$

$54 \div 9 = 6$

$12 \div 3 = 4$

$45 \div 9 = 5$

$35 \div 7 = 5$

$14 \div 7 = 2$

$4 \div 2 = 2$

$4 \div 1 = 4$

$40 \div 8 = 5$

$21 \div 3 = 7$

$6 \div 1 = 6$

$14 \div 2 = 7$

$49 \div 7 = 7$

$35 \div 5 = 7$

$2 \div 2 = 1$

$63 \div 7 = 9$

$56 \div 7 = 8$

$15 \div 5 = 3$

$54 \div 6 = 9$

$21 \div 7 = 3$

$16 \div 8 = 2$

$3 \div 3 = 1$

$10 \div 2 = 5$

$7 \div 7 = 1$

$40 \div 8 = 5$

$9 \div 9 = 1$

$8 \div 1 = 8$

$63 \div 9 = 7$

$64 \div 8 = 8$

$56 \div 8 = 7$

$1 \div 1 = 1$

$3 \div 3 = 1$

$28 \div 4 = 7$

$36 \div 6 = 6$

$18 \div 2 = 9$

$8 \div 2 = 4$

$9 \div 9 = 1$

$24 \div 3 = 8$

$64 \div 8 = 8$

$6 \div 6 = 1$

$48 \div 6 = 8$

$7 \div 1 = 7$

$45 \div 9 = 5$

$35 \div 5 = 7$

$18 \div 3 = 6$

$25 \div 5 = 5$

$4 \div 1 = 4$

$24 \div 6 = 4$

$8 \div 8 = 1$

$27 \div 9 = 3$

$28 \div 7 = 4$

$18 \div 9 = 2$

$81 \div 9 = 9$

$42 \div 6 = 7$

$15 \div 3 = 5$

$16 \div 4 = 4$

$72 \div 8 = 9$

$18 \div 6 = 3$

$28 \div 7 = 4$

$81 \div 9 = 9$

$7 \div 7 = 1$

$32 \div 4 = 8$

$8 \div 8 = 1$

$16 \div 2 = 8$

$63 \div 9 = 7$

$40 \div 5 = 8$

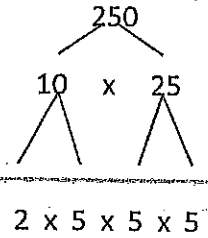
$24 \div 6 = 4$

$12 \div 2 = 6$

Use Euclid's Ladder (or a factor tree) to write the prime factorization.

$2 \overline{)60}$   
 $2 \overline{)30}$   
 $3 \overline{)15}$   
 $5$   
 $60 = 2 \times 2 \times 3 \times 5$

$2 \overline{)250}$   
 $5 \overline{)125}$   
 $5 \overline{)25}$   
 $5$   
 $125 = 2 \times 5 \times 5 \times 5$  OR



1.

$64$   
 $8 \times 8$   
 $2 \times 4 \times 2 \times 4$   
 $2 \times 2 \times 2 \times 2$   
 $2 \times 2$   
 $2 \times 2 \times 2 \times 2 \times 2 \times 2$

2.

$100$   
 $10 \times 10$   
 $2 \times 5 \times 2 \times 5$   
 $2 \times 2 \times 5 \times 5$

3.

$72$   
 $36 \times 2$   
 $6 \times 6$   
 $2 \times 3 \times 2 \times 3$   
 $2 \times 2 \times 2 \times 3 \times 3$

4.

$48$   
 $4 \times 12$   
 $2 \times 2 \times 2 \times 6$   
 $2 \times 3$   
 $2 \times 2 \times 2 \times 2 \times 3$

5.

$36$   
 $6 \times 6$   
 $2 \times 3 \times 2 \times 3$   
 $2 \times 2 \times 3 \times 3$

6.

$54$   
 $9 \times 6$   
 $3 \times 3 \times 2 \times 3$   
 $2 \times 3 \times 3 \times 3$

# Multiplication Facts to 144 (D) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$
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$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 0 \\ \times 11 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$	$\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$	$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$
---	---	--	--	--	--	---	--	--	--

$\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$
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$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 0 \\ \times 12 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$
--	--	--	--	--	---	---	---	---	--

$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$	$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$	$\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$
---	---	---	---	--	--	--	--	--	--

$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$
---	--	---	--	--	--	---	--	---	---

$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$	$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$
--	---	--	--	--	---	--	---	---	--

$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$
--	--	--	--	--	---	--	--	---	---

$\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$
--	--	---	--	---	---	--	---	--	--

$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 0 \\ \times 2 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$
---	--	---	---	--	--	--	--	---	--

Find the GCF of 24 and 36.

24: 1, 2, 3, 4, 6, 8, 12, 24

36: 1, 2, 3, 4, 6, 9, 12, 18, 36

GCF of 24 and 36 is 12.

**No calculator! SHOW ALL WORK!**

1. 18 and 54

18: 1, 2, 3, 6, 9, 18

54: 1, 2, 3, 6, 9, 18, 27, 54

 $\boxed{18}$ 

3. 24 and 60

24: 1, 2, 3, 4, 6, 8, 12, 24

60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

 $\boxed{12}$ 

5. 100 and 75

100: 1, 2, 4, 5, 10, 20, 25, 50, 100

75: 1, 3, 5, 15, ~~25~~, 75 $\boxed{25}$ 

7. 35 and 50

35: 1, 5, 7, 35

50: 1, 2, 5, 10, 25, 50

 $\boxed{5}$

## All Operations (C) Answers

Find each sum, difference, product, or quotient.

50	10	16	45	11	7	14	1	1	4
$\div 5$	$-1$	$\div 2$	$\div 5$	$+3$	$\times 3$	$-5$	$\times 3$	$\times 1$	$\times 12$
10	9	8	9	14	21	9	3	1	48
10	15	22	4	3	11	3	18	7	24
$\times 1$	$-11$	$\div 11$	$\times 6$	$\times 10$	$+4$	$\times 8$	$-12$	$+8$	$\div 4$
10	4	2	24	30	15	24	6	15	6
19	16	16	21	84	9	10	8	14	33
$-12$	$-6$	$-11$	$-9$	$\div 12$	$-7$	$-9$	$\times 10$	$-4$	$\div 11$
7	10	5	12	7	2	1	80	10	3
10	1	5	4	5	4	11	4	7	8
$-5$	$\times 10$	$+5$	$\times 9$	$-3$	$+2$	$\times 5$	$\times 3$	$\times 8$	$\times 2$
5	10	10	36	2	6	55	12	56	16
8	7	11	5	2	12	1	11	3	42
$-5$	$-5$	$-4$	$-2$	$+4$	$\times 11$	$\times 7$	$+8$	$+8$	$\div 6$
3	2	7	3	6	132	7	19	11	7
42	1	12	11	8	84	13	45	12	8
$\div 7$	$+4$	$\div 2$	$+11$	$\times 4$	$\div 7$	$-6$	$\div 9$	$\times 4$	$\times 3$
6	5	6	22	32	12	7	5	48	24
11	5	9	77	7	6	80	13	8	60
$\times 8$	$\div 1$	$\times 2$	$\div 7$	$\times 12$	$\times 8$	$\div 10$	$-6$	$-2$	$\div 5$
88	5	18	11	84	48	8	7	6	12
1	12	10	3	15	12	3	3	17	33
$\times 12$	$\times 1$	$\div 2$	$\times 8$	$\div 5$	$+4$	$+5$	$\times 8$	$-9$	$\div 3$
12	12	5	24	3	16	8	24	8	11
11	7	11	10	1	9	8	8	14	5
$\times 7$	$+1$	$\times 9$	$-2$	$\times 12$	$\div 1$	$\times 12$	$+2$	$\div 2$	$\times 6$
77	8	99	8	12	9	96	10	7	30
11	90	2	8	21	10	1	9	20	14
$-7$	$\div 9$	$\times 6$	$-1$	$\div 7$	$+6$	$\times 4$	$+11$	$-9$	$-4$
4	10	12	7	3	16	4	20	11	10

Find the LCM of 8 and 12.

8: 8, 16, 24, 32, 40, 48, 56, ...

12: 12, 24, 36, 48, 60, 72, ...

LCM of 8 and 12 is 24.

No calculator! SHOW ALL WORK!

1. 6 and 8

6: 6, 12, 18, 24, 30, 36, 42, 48, 54

8: 8, 16, 24, 32, 40, 48

48
----

3. 5 and 7

5: 5, 10, 15, 20, 25, 30, 35, 40, 45

7: 7, 14, 21, 28, 35

35
----

5. 6 and 9

6: 6, 12, 18, 24, 30, 36, 42, 48

9: 9, 18, 27, 36, 45

36
----

7. 15 and 6

15: 15, 30, 45, 60

6: 6, 12, 18, 24, 30

30
----



## Add and Subtract (D) Answers

Find each sum or difference.

4	7	13	9	5	12	13	4	11	3
<u>-3</u>	<u>-2</u>	<u>-9</u>	<u>-4</u>	<u>+4</u>	<u>-8</u>	<u>-9</u>	<u>+3</u>	<u>-2</u>	<u>+5</u>
1	5	4	5	9	4	4	7	9	8
9	5	9	9	3	15	1	7	1	6
<u>+7</u>	<u>+1</u>	<u>-3</u>	<u>+3</u>	<u>+3</u>	<u>-9</u>	<u>+8</u>	<u>+5</u>	<u>+1</u>	<u>+7</u>
16	6	6	12	6	6	9	12	2	13
16	8	12	2	7	4	8	7	14	14
<u>-7</u>	<u>+7</u>	<u>-5</u>	<u>+4</u>	<u>-1</u>	<u>+3</u>	<u>-2</u>	<u>+7</u>	<u>-8</u>	<u>-9</u>
9	15	7	6	6	7	6	14	6	5
5	7	8	8	3	7	18	2	10	4
<u>-1</u>	<u>-3</u>	<u>-4</u>	<u>-1</u>	<u>+5</u>	<u>+9</u>	<u>-9</u>	<u>+1</u>	<u>-4</u>	<u>-2</u>
4	4	4	7	8	16	9	3	6	2
2	13	17	1	15	6	12	2	9	13
<u>+8</u>	<u>-8</u>	<u>-9</u>	<u>+1</u>	<u>-8</u>	<u>+6</u>	<u>-6</u>	<u>+5</u>	<u>+5</u>	<u>-6</u>
10	5	8	2	7	12	6	7	14	7
7	9	7	4	10	13	8	1	3	5
<u>+7</u>	<u>+1</u>	<u>+8</u>	<u>+3</u>	<u>-7</u>	<u>-5</u>	<u>+4</u>	<u>+5</u>	<u>-2</u>	<u>-4</u>
14	10	15	7	3	8	12	6	1	1
12	6	9	8	9	4	5	11	6	15
<u>-6</u>	<u>+9</u>	<u>-2</u>	<u>-1</u>	<u>+7</u>	<u>-2</u>	<u>+7</u>	<u>-3</u>	<u>+7</u>	<u>-7</u>
6	15	7	7	16	2	12	8	13	8
4	9	7	5	2	9	6	5	5	2
<u>-3</u>	<u>+9</u>	<u>+8</u>	<u>-4</u>	<u>+6</u>	<u>-5</u>	<u>+5</u>	<u>+7</u>	<u>+2</u>	<u>-1</u>
1	18	15	1	8	4	11	12	7	1
2	6	9	5	10	12	6	7	15	11
<u>+6</u>	<u>+7</u>	<u>+3</u>	<u>+6</u>	<u>-3</u>	<u>-3</u>	<u>-5</u>	<u>-3</u>	<u>-6</u>	<u>-3</u>
8	13	12	11	7	9	1	4	9	8
8	1	7	6	10	7	7	4	12	2
<u>-4</u>	<u>+1</u>	<u>-4</u>	<u>+9</u>	<u>-6</u>	<u>+2</u>	<u>+9</u>	<u>+5</u>	<u>-4</u>	<u>+7</u>
4	2	3	15	4	9	16	9	8	9

# Order of Operations

Parentheses (Grouping Symbols) Exponents Multiply or Divide, from left to right Add or Subtract, from left to right	$  \begin{aligned}  & [(7-4)^2 + 3] + 15 \\  &= [3^2 + 3] + 15 \\  &= [3 \cdot 3 + 3] + 15 \\  &= [9 + 3] + 15 \\  &= 12 + 15 \\  &= 27  \end{aligned}  $
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**NO CALCULATOR!**

1. $6 \div 3 + 2 \cdot 7$ $  \begin{aligned}  & 2 + 14 \\  & 16  \end{aligned}  $	2. $5 + 8 \cdot 2 - 4$ $  \begin{aligned}  & 5 + 16 - 4 \\  & 21 - 4 \\  & 17  \end{aligned}  $	3. $16 \div 8 \cdot 2^2$ $  \begin{aligned}  & 16 \div 8 \cdot 4 \\  & 2 \cdot 4 \\  & 8  \end{aligned}  $
4. $10 \div (3 + 2) + 9$ $  \begin{aligned}  & 10 \div 5 + 9 \\  & 2 + 9 \\  & 11  \end{aligned}  $	5. $7 \cdot [(18 - 6) - 6]$ $  \begin{aligned}  & 7 \cdot [12 - 6] \\  & 7 \cdot 6 \\  & 42  \end{aligned}  $	6. $3 + (27 \div 9) - 5$ $  \begin{aligned}  & 3 + 3 - 5 \\  & 6 - 5 \\  & 1  \end{aligned}  $
7. $(5 - 3)^2 + 3$ $  \begin{aligned}  & 2^2 + 3 \\  & 4 + 3 \\  & 7  \end{aligned}  $	8. $[10 + (25 \cdot 2)] \div 6$ $  \begin{aligned}  & [10 + 50] \div 6 \\  & 60 \div 6 \\  & 10  \end{aligned}  $	9. $(9 \cdot 2) + 18 \div 6$ $  \begin{aligned}  & 18 + 18 \div 6 \\  & 18 + 3 \\  & 21  \end{aligned}  $

Division Facts (D) Answers
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Find each quotient.

$32 \div 8 = 4$	$27 \div 3 = 9$	$9 \div 1 = 9$	$54 \div 9 = 6$
$8 \div 4 = 2$	$12 \div 3 = 4$	$16 \div 8 = 2$	$18 \div 3 = 6$
$72 \div 9 = 8$	$10 \div 5 = 2$	$9 \div 3 = 3$	$5 \div 5 = 1$
$20 \div 5 = 4$	$30 \div 5 = 6$	$54 \div 6 = 9$	$18 \div 9 = 2$
$24 \div 4 = 6$	$20 \div 4 = 5$	$6 \div 3 = 2$	$27 \div 9 = 3$
$36 \div 4 = 9$	$30 \div 6 = 5$	$36 \div 9 = 4$	$45 \div 5 = 9$
$9 \div 1 = 9$	$10 \div 2 = 5$	$42 \div 6 = 7$	$24 \div 6 = 4$
$5 \div 1 = 5$	$30 \div 6 = 5$	$15 \div 3 = 5$	$1 \div 1 = 1$
$15 \div 5 = 3$	$16 \div 2 = 8$	$12 \div 3 = 4$	$45 \div 5 = 9$
$8 \div 1 = 8$	$45 \div 9 = 5$	$32 \div 4 = 8$	$2 \div 1 = 2$
$9 \div 9 = 1$	$42 \div 7 = 6$	$40 \div 5 = 8$	$24 \div 4 = 6$
$16 \div 4 = 4$	$3 \div 1 = 3$	$30 \div 5 = 6$	$54 \div 6 = 9$
$35 \div 7 = 5$	$28 \div 7 = 4$	$7 \div 1 = 7$	$6 \div 6 = 1$
$81 \div 9 = 9$	$4 \div 1 = 4$	$8 \div 4 = 2$	$6 \div 1 = 6$
$18 \div 9 = 2$	$56 \div 8 = 7$	$20 \div 4 = 5$	$40 \div 8 = 5$
$18 \div 3 = 6$	$5 \div 5 = 1$	$21 \div 3 = 7$	$36 \div 9 = 4$
$18 \div 6 = 3$	$64 \div 8 = 8$	$24 \div 3 = 8$	$32 \div 8 = 4$
$9 \div 3 = 3$	$12 \div 4 = 3$	$63 \div 9 = 7$	$4 \div 4 = 1$
$48 \div 6 = 8$	$3 \div 3 = 1$	$7 \div 7 = 1$	$10 \div 5 = 2$
$27 \div 9 = 3$	$56 \div 7 = 8$	$8 \div 2 = 4$	$4 \div 2 = 2$
$27 \div 3 = 9$	$6 \div 3 = 2$	$20 \div 5 = 4$	$72 \div 8 = 9$
$36 \div 6 = 6$	$36 \div 4 = 9$	$54 \div 9 = 6$	$12 \div 6 = 2$
$49 \div 7 = 7$	$35 \div 5 = 7$	$14 \div 2 = 7$	$21 \div 7 = 3$
$14 \div 7 = 2$	$28 \div 4 = 7$	$25 \div 5 = 5$	$2 \div 2 = 1$
$24 \div 8 = 3$	$8 \div 8 = 1$	$63 \div 7 = 9$	$12 \div 2 = 6$

<p>A) <math>653 \times 29</math></p> $\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 653 \\ \times 29 \\ \hline 5877 \\ +13060 \\ \hline 18937 \end{array}$	<p><math>1820 \div 28</math></p> $\begin{array}{r} 65 \\ 28 \overline{)1820} \\ \underline{-168} \\ 140 \\ \underline{-140} \\ 0 \end{array}$	<p><math>28 \times 6</math></p> $\begin{array}{r} 28 \\ \times 6 \\ \hline 168 \end{array}$	<p><math>28 \times 5</math></p> $\begin{array}{r} 28 \\ \times 5 \\ \hline 140 \end{array}$
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NO CALCULATOR! SHOW ALL WORK!

<p>1. <math>975 \times 8</math></p> $\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 975 \\ \times 8 \\ \hline 7800 \end{array}$	<p>2. <math>109 \times 7</math></p> $\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 109 \\ \times 7 \\ \hline 763 \end{array}$
<p>4. <math>73 \times 18</math></p> $\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 73 \\ \times 18 \\ \hline 584 \\ +730 \\ \hline 1314 \end{array}$	<p>5. <math>471 \times 16</math></p> $\begin{array}{r} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 471 \\ \times 16 \\ \hline 2826 \\ +4710 \\ \hline 7536 \end{array}$
<p>7. <math>2970 \div 5</math></p> $\begin{array}{r} 594 \\ 5 \overline{)2970} \\ \underline{-25} \\ 47 \\ \underline{-45} \\ 20 \\ \underline{-20} \\ 0 \end{array}$ <p><span style="border: 1px solid black; padding: 2px;">594</span></p>	<p>8. <math>2124 \div 4</math></p> $\begin{array}{r} 531 \\ 4 \overline{)2124} \\ \underline{-20} \\ 12 \\ \underline{-12} \\ 0 \end{array}$ <p><span style="border: 1px solid black; padding: 2px;">531</span></p>
<p>10. <math>5472 \div 19</math></p> $\begin{array}{r} 288 \\ 19 \overline{)5472} \\ \underline{-38} \\ 167 \\ \underline{-152} \\ 152 \\ \underline{-152} \\ 0 \end{array}$ <p><span style="border: 1px solid black; padding: 2px;">288</span></p>	<p>11. <math>42800 \div 25</math></p> $\begin{array}{r} 1712 \\ 25 \overline{)42800} \\ \underline{25} \\ 178 \\ \underline{-175} \\ 30 \\ \underline{-25} \\ 50 \\ \underline{-50} \\ 0 \end{array}$ <p><span style="border: 1px solid black; padding: 2px;">1,712</span></p>

# Multiplication Facts to 144 (C) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$	$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$
$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 0 \\ \times 1 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$
$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$	$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$	$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$
$\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$
$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$	$\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$
$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 0 \\ \times 12 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$
$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$	$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$
$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$	$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$
$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 0 \\ \times 11 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$
$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$

# 5th into 6th grade SUMMER MATH PACKET | Cosentino

Find the Mean/Average, Median, Mode, and Range of a Set of Numbers

Exercises: No Calculators!

No work = no credit.

Data Set: ~~5, 12, 6, 3, 8, 16, 8, 6~~

3, 5, 6, 6, 8, 8, 12, 16

Mean: 8

$$\frac{3+5+6+6+8+8+12+16}{8} = \frac{64}{8} = 8$$

Median: 7

Mode: 6 and 8

Range:  $16 - 3 = 13$

Data Set: ~~2, 7, 4, 11, 12, 4, 6~~

2, 4, 4, 6, 7, 11, 12

Mean: 6.57... or  $6\frac{4}{7}$

$$\frac{2+4+4+6+7+11+12}{7} = \frac{46}{7}$$

Median: 6

Mode: 4

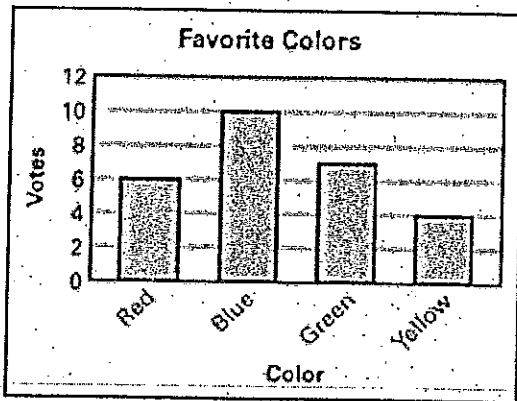
Range:  $12 - 2 = 10$

## All Operations (D) Answers

Find each sum, difference, product, or quotient.

9	9	12	9	1	90	8	9	27	50
$\div 3$	$\times 7$	$\div 2$	$- 5$	$\times 2$	$\div 9$	$\times 9$	$\times 1$	$\div 3$	$\div 5$
3	63	6	4	2	10	72	9	9	10
28	20	14	60	1	6	12	10	1	3
$\div 4$	$- 12$	$- 2$	$\div 6$	$\times 4$	$+ 8$	$+ 7$	$- 6$	$+ 4$	$+ 11$
7	8	12	10	4	14	19	4	5	14
6	6	60	7	2	13	8	21	5	1
$+ 1$	$+ 10$	$\div 12$	$+ 3$	$+ 9$	$- 9$	$- 1$	$\div 7$	$\times 10$	$\times 3$
7	16	5	10	11	4	7	3	50	3
28	8	4	24	9	10	11	11	84	2
$\div 4$	$+ 3$	$- 1$	$\div 3$	$+ 11$	$+ 1$	$\times 6$	$- 3$	$\div 7$	$- 1$
7	11	3	8	20	11	66	8	12	1
10	2	18	8	12	7	9	13	12	10
$- 4$	$+ 1$	$- 8$	$- 3$	$+ 12$	$+ 8$	$- 3$	$- 9$	$\times 12$	$\times 8$
6	3	10	5	24	15	6	4	144	80
81	22	14	11	33	20	10	8	1	48
$\div 9$	$- 11$	$\div 7$	$- 6$	$\div 11$	$\div 10$	$\div 2$	$\times 10$	$\times 8$	$\div 8$
9	11	2	5	3	2	5	80	8	6
23	70	7	7	12	12	3	16	7	2
$- 12$	$\div 7$	$\times 9$	$\times 2$	$\times 6$	$- 10$	$\times 3$	$- 10$	$- 2$	$+ 9$
11	10	63	14	72	2	9	6	5	11
10	5	9	7	5	15	21	4	12	12
$\times 2$	$\times 11$	$\times 4$	$\times 6$	$+ 3$	$- 3$	$- 12$	$\times 6$	$\div 6$	$\times 10$
20	55	36	42	8	12	9	24	2	120
54	7	8	27	7	7	13	9	11	5
$\div 6$	$\times 10$	$\times 4$	$\div 9$	$+ 7$	$\div 7$	$- 3$	$+ 11$	$+ 1$	$+ 4$
9	70	32	3	14	1	10	20	12	9
12	8	14	10	16	11	9	2	10	3
$- 9$	$+ 3$	$- 10$	$\times 1$	$- 4$	$+ 12$	$\div 9$	$\times 5$	$\times 2$	$\times 6$
3	11	4	10	12	23	1	10	20	18

Use the bar graph.

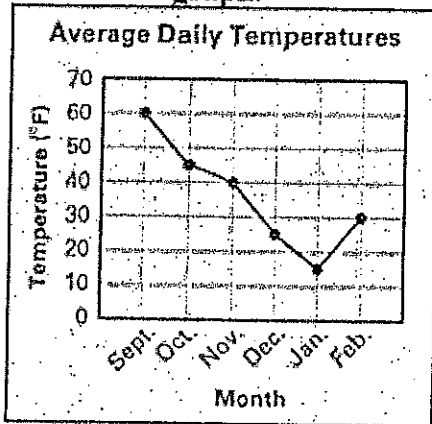


What color did 7 people vote for? *Green*

What color had 4 fewer votes than blue? *Red*

What was the total number of votes for red and yellow? *10*

Use the line graph.



In which month was the average daily temperature the lowest? *Jan*

What is the difference between the average daily temperatures for November and December?

$$40 - 25 = 15$$

What was the average daily temperature for October?

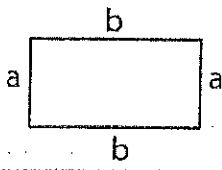
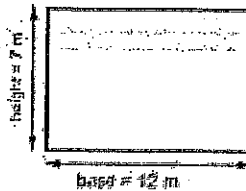
$$45^{\circ}$$



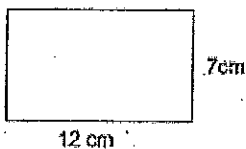
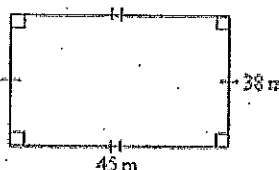
## Add and Subtract (E) Answers

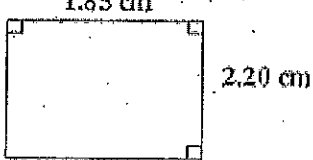
Find each sum or difference.


2	1	11	15	8	5	10	11	12	14
<u>+8</u>	<u>+7</u>	<u>-8</u>	<u>-6</u>	<u>+7</u>	<u>+9</u>	<u>-3</u>	<u>-3</u>	<u>-6</u>	<u>-6</u>
10	8	3	9	15	14	7	8	6	8
3	7	5	11	9	8	9	3	10	2
<u>+5</u>	<u>-1</u>	<u>+9</u>	<u>-7</u>	<u>+3</u>	<u>-3</u>	<u>-1</u>	<u>+4</u>	<u>-2</u>	<u>+5</u>
8	6	14	4	12	5	8	7	8	7
15	1	4	9	1	6	13	1	17	9
<u>-7</u>	<u>+4</u>	<u>+6</u>	<u>+3</u>	<u>+8</u>	<u>-2</u>	<u>-5</u>	<u>+4</u>	<u>-9</u>	<u>-8</u>
8	5	10	12	9	4	8	5	8	1
3	5	11	13	12	5	2	11	5	1
<u>+7</u>	<u>-2</u>	<u>-8</u>	<u>-9</u>	<u>-7</u>	<u>-4</u>	<u>+7</u>	<u>-6</u>	<u>-4</u>	<u>+4</u>
10	3	3	4	5	1	9	5	1	5
11	1	9	1	9	6	5	7	6	2
<u>-5</u>	<u>+1</u>	<u>+9</u>	<u>+6</u>	<u>-5</u>	<u>-5</u>	<u>+8</u>	<u>-6</u>	<u>+3</u>	<u>+3</u>
6	2	18	7	4	1	13	1	9	5
15	11	6	8	7	5	7	12	7	1
<u>-8</u>	<u>-6</u>	<u>-4</u>	<u>-3</u>	<u>+1</u>	<u>-3</u>	<u>+3</u>	<u>-9</u>	<u>+9</u>	<u>+7</u>
7	5	2	5	8	2	10	3	16	8
9	3	4	12	3	15	7	10	3	2
<u>+7</u>	<u>+3</u>	<u>+7</u>	<u>-5</u>	<u>+8</u>	<u>-7</u>	<u>+1</u>	<u>-6</u>	<u>+8</u>	<u>+2</u>
16	6	11	7	11	8	8	4	11	4
2	2	5	15	9	3	8	2	8	9
<u>-1</u>	<u>+2</u>	<u>+2</u>	<u>-6</u>	<u>-1</u>	<u>-2</u>	<u>-1</u>	<u>+9</u>	<u>-5</u>	<u>-2</u>
1	4	7	9	8	1	7	11	3	7
6	12	14	8	12	18	2	10	1	3
<u>+3</u>	<u>-7</u>	<u>-9</u>	<u>+5</u>	<u>-5</u>	<u>-9</u>	<u>+3</u>	<u>-4</u>	<u>+1</u>	<u>+4</u>
9	5	5	13	7	9	5	6	2	7
11	1	17	5	6	2	8	9	2	8
<u>-7</u>	<u>+3</u>	<u>-8</u>	<u>-3</u>	<u>+5</u>	<u>+5</u>	<u>+1</u>	<u>+8</u>	<u>+2</u>	<u>-1</u>
4	4	9	2	11	7	9	17	4	7

<p><b>Perimeter:</b></p> <p><b>Perimeter of a rectangle</b></p> <p>The opposite sides of a rectangle are congruent.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;"> <math>P = a + b + a + b</math>  <math>P = a + b + a + b</math> </div>  </div> <p><i>Example:</i>              If <math>a = 3</math> units and <math>b = 5</math> units then              Perimeter (<math>P</math>) = <math>3 + 5 + 3 + 5 = 16</math> units</p>	<p><b>Area:</b></p> <p><b>Area of Rectangle</b></p> <p>The area of a Rectangle equals the base times the height.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>A = b \times h</math> </div> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <math>A = b \times h</math>  <math>A = 12 \times 7</math>  <math>A = 84 \text{ m}^2</math> </div> </div>
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Find the perimeter and area of each shape:

 <p style="text-align: center;"><math>A = 12 \times 7 = 84</math></p> <p style="text-align: center;"><math>P = 12 + 7 + 12 + 7 =</math></p> <p>Perimeter: <u>38 cm</u>    Area: <u>84 cm<sup>2</sup></u></p>	 <p style="text-align: center;"><math>A = 45 \times 38</math></p> <p style="text-align: center;"><math>P = 45 + 45 + 38 + 38</math></p> <p>Perimeter: <u>160 m</u>    Area: <u>1710 m<sup>2</sup></u></p>
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 <p style="text-align: center;"><math>A = 1.85 \times 2.20</math></p> <p style="text-align: center;"><math>P = 1.85 + 1.85 + 2.2 + 2.2</math></p> <p>Perimeter: <u>8.1 cm</u>    Area: <u>4.07 cm<sup>2</sup></u></p>	
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 <p style="text-align: center;"><math>A = \frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}</math></p> <p style="text-align: center;"><math>P = \frac{1}{2} + \frac{1}{2} + \frac{2}{3} + \frac{2}{3} = \frac{3}{6} + \frac{3}{6} + \frac{4}{6} + \frac{4}{6} = \frac{14}{6} = 2\frac{2}{3} = 2\frac{1}{3}</math></p> <p>Perimeter: <u>2 <sup>1</sup>/<sub>3</sub> in</u>    Area: <u><sup>1</sup>/<sub>3</sub> in<sup>2</sup></u></p>	
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Division Facts (E) Answers
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Find each quotient.

$16 \div 8 = 2$

$72 \div 9 = 8$

$6 \div 2 = 3$

$18 \div 2 = 9$

$48 \div 8 = 6$

$16 \div 4 = 4$

$24 \div 8 = 3$

$20 \div 5 = 4$

$56 \div 7 = 8$

$27 \div 9 = 3$

$1 \div 1 = 1$

$14 \div 7 = 2$

$45 \div 5 = 9$

$64 \div 8 = 8$

$5 \div 1 = 5$

$25 \div 5 = 5$

$20 \div 4 = 5$

$6 \div 1 = 6$

$72 \div 9 = 8$

$5 \div 5 = 1$

$35 \div 5 = 7$

$54 \div 6 = 9$

$15 \div 5 = 3$

$3 \div 1 = 3$

$15 \div 3 = 5$

$40 \div 5 = 8$

$18 \div 6 = 3$

$12 \div 4 = 3$

$36 \div 9 = 4$

$28 \div 4 = 7$

$18 \div 9 = 2$

$21 \div 7 = 3$

$81 \div 9 = 9$

$48 \div 8 = 6$

$8 \div 1 = 8$

$40 \div 8 = 5$

$4 \div 4 = 1$

$42 \div 6 = 7$

$24 \div 4 = 6$

$16 \div 2 = 8$

$35 \div 7 = 5$

$18 \div 3 = 6$

$24 \div 3 = 8$

$63 \div 7 = 9$

$32 \div 8 = 4$

$9 \div 1 = 9$

$14 \div 2 = 7$

$2 \div 2 = 1$

$7 \div 1 = 7$

$72 \div 8 = 9$

$10 \div 5 = 2$

$30 \div 5 = 6$

$42 \div 7 = 6$

$45 \div 9 = 5$

$12 \div 6 = 2$

$7 \div 7 = 1$

$8 \div 4 = 2$

$36 \div 4 = 9$

$6 \div 2 = 3$

$32 \div 4 = 8$

$4 \div 1 = 4$

$8 \div 8 = 1$

$16 \div 8 = 2$

$56 \div 8 = 7$

$54 \div 9 = 6$

$49 \div 7 = 7$

$28 \div 7 = 4$

$9 \div 3 = 3$

$18 \div 2 = 9$

$48 \div 6 = 8$

$10 \div 2 = 5$

$21 \div 3 = 7$

$30 \div 6 = 5$

$3 \div 3 = 1$

$2 \div 1 = 2$

$4 \div 2 = 2$

$12 \div 2 = 6$

$27 \div 3 = 9$

$8 \div 2 = 4$

$9 \div 9 = 1$

$6 \div 3 = 2$

$12 \div 3 = 4$

$6 \div 6 = 1$

$36 \div 6 = 6$

$63 \div 9 = 7$

$24 \div 6 = 4$

$12 \div 6 = 2$

$9 \div 1 = 9$

$20 \div 4 = 5$

$72 \div 8 = 9$

$15 \div 3 = 5$

$5 \div 1 = 5$

$8 \div 1 = 8$

$49 \div 7 = 7$

$2 \div 1 = 2$

$27 \div 3 = 9$

$10 \div 2 = 5$

$21 \div 3 = 7$

$3 \div 1 = 3$

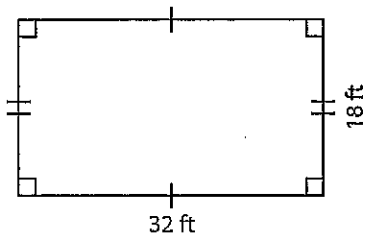
$14 \div 7 = 2$

# Area of a Quadrilateral

Answer Key

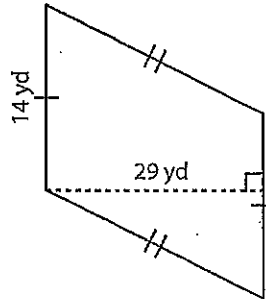
Find the area of each quadrilateral.

1)



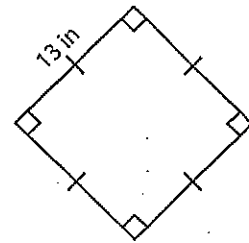
Area = 576 ft<sup>2</sup>

2)



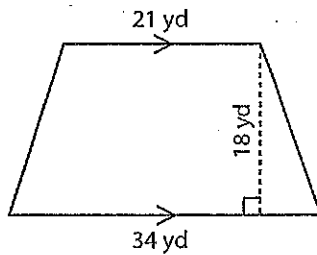
Area = 406 yd<sup>2</sup>

3)



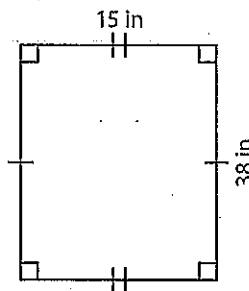
Area = 169 in<sup>2</sup>

4)



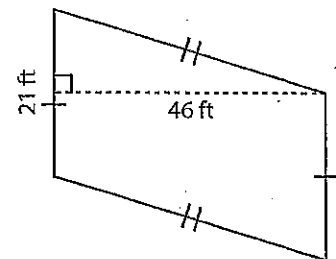
Area = 495 yd<sup>2</sup>

5)



Area = 570 in<sup>2</sup>

6)



Area = 966 ft<sup>2</sup>

# Multiplication Facts to 144 (B) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$	$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$	$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$
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$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$	$\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 5 \\ \times 0 \\ \hline 0 \end{array}$
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$\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$	$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$
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$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$
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$\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$	$\begin{array}{r} 0 \\ \times 12 \\ \hline 0 \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$
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$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$
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$\begin{array}{r} 0 \\ \times 10 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$
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$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$	$\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 0 \\ \times 11 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$
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$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$
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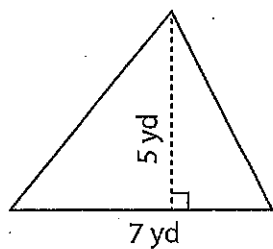
$\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$	$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$
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# Area of Triangles | Integers

Answer key

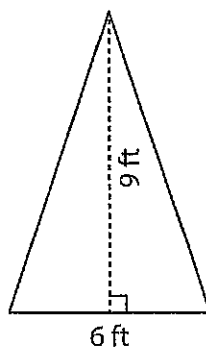
Find the area of each triangle.

1)



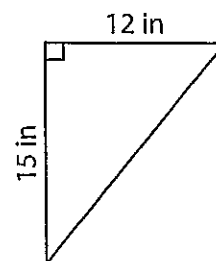
Area = 17.5 yd<sup>2</sup>

2)



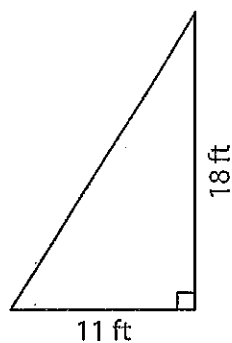
Area = 27 ft<sup>2</sup>

3)



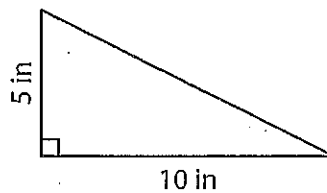
Area = 90 in<sup>2</sup>

4)



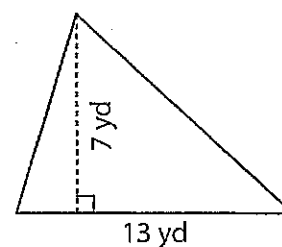
Area = 99 ft<sup>2</sup>

5)



Area = 25 in<sup>2</sup>

6)



Area = 45.5 yd<sup>2</sup>

## All Operations (F) Answers

Find each sum, difference, product, or quotient.

48	72	3	4	9	14	2	8	14	2
$\div 12$	$\div 6$	$\times 12$	$- 2$	$+ 3$	$- 12$	$\times 10$	$- 2$	$- 7$	$\times 7$
4	12	36	2	12	2	20	6	7	14
55	3	10	10	9	7	8	2	5	5
$\div 11$	$\div 1$	$\div 2$	$\times 12$	$+ 4$	$\times 3$	$- 1$	$+ 1$	$- 4$	$\times 5$
5	3	5	120	13	21	7	3	1	25
10	90	16	20	4	100	19	6	5	1
$- 1$	$\div 9$	$- 5$	$- 11$	$+ 10$	$\div 10$	$- 8$	$\times 7$	$- 2$	$+ 11$
9	10	11	9	14	10	11	42	3	12
1	3	9	10	10	120	2	11	70	11
$\times 4$	$+ 2$	$\div 3$	$\times 8$	$+ 2$	$\div 12$	$\times 2$	$- 1$	$\div 10$	$+ 10$
4	5	3	80	12	10	4	10	7	21
8	12	7	10	32	12	3	12	110	7
$- 4$	$- 5$	$+ 5$	$\times 9$	$\div 8$	$+ 11$	$+ 10$	$\times 11$	$\div 10$	$+ 3$
4	7	12	90	4	23	13	132	11	10
4	7	12	1	5	7	4	121	36	9
$+ 9$	$+ 2$	$\times 12$	$+ 8$	$- 4$	$+ 3$	$+ 11$	$\div 11$	$\div 4$	$+ 5$
13	9	144	9	1	10	15	11	9	14
5	8	15	2	4	22	1	6	15	144
$- 2$	$+ 9$	$- 11$	$+ 6$	$+ 12$	$\div 2$	$+ 10$	$\times 3$	$- 12$	$\div 12$
3	17	4	8	16	11	11	18	3	12
1	11	4	2	16	5	1	6	10	40
$\times 11$	$- 10$	$\times 5$	$+ 12$	$- 11$	$- 1$	$\times 11$	$- 5$	$\div 1$	$\div 10$
11	1	20	14	5	4	11	1	10	4
28	11	11	5	17	4	42	4	144	49
$\div 4$	$+ 11$	$- 5$	$\times 9$	$- 7$	$+ 5$	$\div 7$	$\div 4$	$\div 12$	$\div 7$
7	22	6	45	10	9	6	1	12	7
81	5	10	4	10	3	2	21	42	20
$\div 9$	$\times 6$	$\times 11$	$\times 4$	$+ 2$	$+ 10$	$\times 9$	$- 12$	$\div 6$	$- 9$
9	30	110	16	12	13	18	9	7	11





## Add and Subtract (F) Answers

Find each sum or difference.

4	5	4	4	4	7	14	7	5	9
<u>-2</u>	<u>+7</u>	<u>-1</u>	<u>+2</u>	<u>+2</u>	<u>-3</u>	<u>-9</u>	<u>+4</u>	<u>+8</u>	<u>+7</u>
2	12	3	6	6	4	5	11	13	16
7	12	10	1	3	6	8	3	8	10
<u>+1</u>	<u>-7</u>	<u>-4</u>	<u>+6</u>	<u>+6</u>	<u>+7</u>	<u>-4</u>	<u>+9</u>	<u>+4</u>	<u>-1</u>
8	5	6	7	9	13	4	12	12	9
13	9	16	12	10	4	16	18	6	6
<u>-7</u>	<u>+6</u>	<u>-8</u>	<u>-8</u>	<u>-1</u>	<u>-1</u>	<u>-8</u>	<u>-9</u>	<u>-3</u>	<u>+4</u>
6	15	8	4	9	3	8	9	3	10
9	12	14	9	7	15	9	5	6	12
<u>-5</u>	<u>-3</u>	<u>-5</u>	<u>+9</u>	<u>+1</u>	<u>-7</u>	<u>-3</u>	<u>+3</u>	<u>+4</u>	<u>-4</u>
4	9	9	18	8	8	6	8	10	8
12	5	3	10	8	4	8	7	9	12
<u>-4</u>	<u>+5</u>	<u>+6</u>	<u>-6</u>	<u>-2</u>	<u>+5</u>	<u>+3</u>	<u>+5</u>	<u>-2</u>	<u>-9</u>
8	10	9	4	6	9	11	12	7	3
5	5	4	12	13	7	4	14	15	2
<u>-4</u>	<u>+3</u>	<u>-1</u>	<u>-7</u>	<u>-9</u>	<u>-5</u>	<u>+9</u>	<u>-5</u>	<u>-7</u>	<u>+3</u>
1	8	3	5	4	2	13	9	8	5
16	4	13	2	10	3	14	10	17	2
<u>-8</u>	<u>-2</u>	<u>-6</u>	<u>+3</u>	<u>-3</u>	<u>+4</u>	<u>-8</u>	<u>-5</u>	<u>-9</u>	<u>-1</u>
8	2	7	5	7	7	6	5	8	1
6	7	5	7	9	9	6	6	5	9
<u>+4</u>	<u>+8</u>	<u>-2</u>	<u>+9</u>	<u>+3</u>	<u>-3</u>	<u>+8</u>	<u>+8</u>	<u>+3</u>	<u>+9</u>
10	15	3	16	12	6	14	14	8	18
4	14	4	12	9	8	2	12	9	9
<u>+3</u>	<u>-9</u>	<u>+2</u>	<u>-3</u>	<u>+8</u>	<u>-1</u>	<u>-1</u>	<u>-4</u>	<u>-7</u>	<u>-1</u>
7	5	6	9	17	7	1	8	2	8
7	5	2	9	9	7	15	7	16	3
<u>+7</u>	<u>+7</u>	<u>+5</u>	<u>+9</u>	<u>+4</u>	<u>+8</u>	<u>-6</u>	<u>-4</u>	<u>-9</u>	<u>+3</u>
14	12	7	18	13	15	9	3	7	6

Name: \_\_\_\_\_

## Answer Key

### One-Step Equations: Integers

Add/Sub Level 1: S1

Solve each equation.

$$1) \quad x + \cancel{9} = 12$$

$\quad \quad \quad \cancel{-9} \quad \quad \quad -9$

$$x = 3$$

$$2) \quad s - \cancel{1} = 10$$

$\quad \quad \quad \cancel{+1} \quad \quad \quad +1$

$$s = 11$$

$$3) \quad 3 = z - \cancel{11}$$

$\quad \quad \quad \cancel{+11} \quad \quad \quad +11$

$$z = 14$$

$$4) \quad \cancel{5} + y = 7$$

$\quad \quad \quad \cancel{-5} \quad \quad \quad -5$

$$y = 2$$

$$5) \quad 8 = \cancel{2} + q$$

$\quad \quad \quad \cancel{-2} \quad \quad \quad -2$

$$q = 6$$

$$6) \quad 6 = n + \cancel{4}$$

$\quad \quad \quad \cancel{+4} \quad \quad \quad +4$

$$n = 10$$

$$7) \quad r - \cancel{2} = 5$$

$\quad \quad \quad \cancel{+2} \quad \quad \quad +2$

$$r = 7$$

$$8) \quad 6 = m + \cancel{6}$$

$\quad \quad \quad \cancel{-6} \quad \quad \quad -6$

$$m = 0$$

$$9) \quad p + \cancel{7} = 8$$

$\quad \quad \quad \cancel{-7} \quad \quad \quad -7$

$$p = 1$$

$$10) \quad \cancel{4} + a = 13$$

$\quad \quad \quad \cancel{-4} \quad \quad \quad -4$

$$a = 9$$

Division Facts (F) Answers
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Find each quotient.

$6 \div 1 = 6$	$36 \div 4 = 9$	$4 \div 2 = 2$	$6 \div 3 = 2$
$18 \div 2 = 9$	$12 \div 2 = 6$	$12 \div 4 = 3$	$6 \div 2 = 3$
$9 \div 9 = 1$	$40 \div 5 = 8$	$32 \div 4 = 8$	$14 \div 2 = 7$
$9 \div 3 = 3$	$18 \div 3 = 6$	$2 \div 2 = 1$	$40 \div 8 = 5$
$16 \div 4 = 4$	$16 \div 8 = 2$	$21 \div 7 = 3$	$6 \div 6 = 1$
$4 \div 4 = 1$	$1 \div 1 = 1$	$18 \div 6 = 3$	$48 \div 8 = 6$
$28 \div 7 = 4$	$25 \div 5 = 5$	$16 \div 2 = 8$	$4 \div 1 = 4$
$5 \div 5 = 1$	$30 \div 6 = 5$	$42 \div 6 = 7$	$7 \div 1 = 7$
$54 \div 6 = 9$	$45 \div 9 = 5$	$8 \div 2 = 4$	$24 \div 4 = 6$
$48 \div 6 = 8$	$24 \div 3 = 8$	$36 \div 9 = 4$	$12 \div 3 = 4$
$3 \div 3 = 1$	$42 \div 7 = 6$	$24 \div 6 = 4$	$8 \div 8 = 1$
$63 \div 7 = 9$	$7 \div 7 = 1$	$56 \div 7 = 8$	$32 \div 8 = 4$
$27 \div 9 = 3$	$35 \div 7 = 5$	$20 \div 5 = 4$	$8 \div 4 = 2$
$28 \div 4 = 7$	$18 \div 9 = 2$	$35 \div 5 = 7$	$24 \div 8 = 3$
$56 \div 8 = 7$	$64 \div 8 = 8$	$15 \div 5 = 3$	$72 \div 9 = 8$
$81 \div 9 = 9$	$54 \div 9 = 6$	$30 \div 5 = 6$	$36 \div 6 = 6$
$45 \div 5 = 9$	$63 \div 9 = 7$	$10 \div 5 = 2$	$14 \div 7 = 2$
$5 \div 1 = 5$	$8 \div 4 = 2$	$48 \div 6 = 8$	$24 \div 6 = 4$
$56 \div 7 = 8$	$40 \div 5 = 8$	$42 \div 6 = 7$	$54 \div 9 = 6$
$15 \div 5 = 3$	$14 \div 2 = 7$	$8 \div 1 = 8$	$16 \div 4 = 4$
$36 \div 6 = 6$	$6 \div 6 = 1$	$32 \div 4 = 8$	$12 \div 6 = 2$
$2 \div 1 = 2$	$45 \div 9 = 5$	$72 \div 9 = 8$	$63 \div 9 = 7$
$27 \div 3 = 9$	$10 \div 5 = 2$	$18 \div 9 = 2$	$30 \div 5 = 6$
$36 \div 9 = 4$	$81 \div 9 = 9$	$12 \div 4 = 3$	$45 \div 5 = 9$
$24 \div 8 = 3$	$54 \div 6 = 9$	$64 \div 8 = 8$	$5 \div 5 = 1$

Name: \_\_\_\_\_

## Answer Key

### One-Step Equations: Integers

Mul/Div Level 1: S1

Solve each equation.

$$1) \quad 3x = 36$$
$$\div 3 \quad \div 3$$

$$x = 12$$

$$2) \quad \frac{y}{9} = 3$$
$$\times 9 \quad \times 9$$

$$y = 27$$

$$3) \quad 5p = 25$$
$$\div 5 \quad \div 5$$

$$p = 5$$

$$4) \quad 14 = \frac{a}{2}$$
$$\times 2 \quad \times 2$$

$$a = 28$$

$$5) \quad \frac{r}{8} = 4$$
$$\times 8 \quad \times 8$$

$$r = 32$$

$$6) \quad 24 = 6c$$
$$\div 6 \quad \div 6$$

$$c = 4$$

$$7) \quad \frac{q}{11} = 1$$
$$\times 11 \quad \times 11$$

$$q = 11$$

$$8) \quad 8u = 40$$
$$\div 8 \quad \div 8$$

$$u = 5$$

$$9) \quad 10 = \frac{w}{3}$$
$$\times 3 \quad \times 3$$

$$w = 30$$

$$10) \quad 7z = 7$$
$$\div 7 \quad \div 7$$

$$z = 1$$

# Multiplication Facts to 144 (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ /100

Calculate each product.

$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 11 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$	$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$	$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$
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$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$
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$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 10 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$
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$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$
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$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$	$\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$	$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$
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$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$
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$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$
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$\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$	$\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$
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$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$
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$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$	$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$
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Name: \_\_\_\_\_

## Answer Key

### One-Step Equations: Integers

Mixed Operations Level 1: S1

Solve each equation.

1)  $10 = z + 6$

**$z = 4$**

2)  $8y = 48$

**$y = 6$**

3)  $q - 12 = 1$

**$q = 13$**

4)  $18 = \frac{a}{2}$

**$a = 36$**

5)  $\frac{r}{3} = 7$

**$r = 21$**

6)  $11 = m - 4$

**$m = 15$**

7)  $t - 19 = 2$

**$t = 21$**

8)  $1 + s = 3$

**$s = 2$**

9)  $24 = 4c$

**$c = 6$**

10)  $\frac{v}{5} = 9$

**$v = 45$**

## All Operations (E) Answers

Find each sum, difference, product, or quotient.

32	7	5	18	14	10	5	2	8	6
$\div 4$	$\times 1$	$\times 9$	$-11$	$-7$	$-4$	$+9$	$+4$	$\times 8$	$-1$
8	7	45	7	7	6	14	6	64	5
60	10	9	9	84	5	20	21	30	11
$\div 6$	$+6$	$-2$	$-2$	$\div 7$	$\times 9$	$\div 4$	$-11$	$\div 5$	$-7$
10	16	7	7	12	45	5	10	6	4
5	6	10	8	19	14	7	63	14	19
$\div 5$	$\times 5$	$\times 10$	$-5$	$-7$	$-5$	$+4$	$\div 9$	$-6$	$-7$
1	30	100	3	12	9	11	7	8	12
11	5	1	2	7	2	13	20	18	99
$+2$	$\div 1$	$\times 2$	$+7$	$+4$	$\times 7$	$-7$	$\div 5$	$\div 2$	$\div 9$
13	5	2	9	11	14	6	4	9	11
1	72	16	120	14	10	20	64	55	27
$+10$	$\div 8$	$-9$	$\div 12$	$-3$	$\times 3$	$-12$	$\div 8$	$\div 11$	$\div 9$
11	9	7	10	11	30	8	8	5	3
88	28	2	9	72	144	3	19	11	13
$\div 8$	$\div 4$	$+3$	$+6$	$\div 6$	$\div 12$	$+4$	$-9$	$-5$	$-3$
11	7	5	15	12	12	7	10	6	10
10	4	11	3	4	19	6	6	6	66
$+11$	$\times 9$	$\times 9$	$-2$	$+8$	$-10$	$+7$	$+9$	$+8$	$\div 11$
21	36	99	1	12	9	13	15	14	6
9	77	6	2	9	100	18	20	5	12
$+12$	$\div 7$	$\times 1$	$\div 1$	$\div 9$	$\div 10$	$-8$	$-10$	$+4$	$-8$
21	11	6	2	1	10	10	10	9	4
6	5	11	5	121	10	19	22	132	12
$\times 8$	$\times 8$	$+9$	$-1$	$\div 11$	$\times 12$	$-8$	$\div 11$	$\div 11$	$+3$
48	40	20	4	11	120	11	2	12	15
3	18	1	9	20	6	3	13	6	15
$\times 7$	$\div 9$	$+7$	$\div 1$	$-8$	$\times 6$	$\times 8$	$-4$	$+6$	$\div 5$
21	2	8	9	12	36	24	9	12	3

