Rising Seventh Grade Regular Math Summer Learning Packet

Name:

Adding & Subtracting Decimals

- I. Write the problem vertically, lining up the decimal points.
- 2. Add additional zeroes at the end, if necessary, to make the numbers have the same number of decimal places.
- 3. Add/subtract as if the numbers are whole numbers
- 4. Bring the decimal point straight down
- Multiplying Decimals
 Write the problem vertically with the numbers lined up to the right. ex: 6.94 x 7.8 The decimal points do NOT need to be lined up.
- 2. Ignore the decimals and multiply as if the numbers are whole numbers.
- 3. Count the total number of decimal places in the factors and put a decimal point in the product so that it has that same number of decimal places.
- $\begin{array}{c} 6.94 \longrightarrow 2 \text{ decimal places} \\ X 7.8 \longrightarrow 1 \text{ decimal place} \end{array}$

Dividing Decimals

- 1. Write the dividend under the long division symbol and the divisor to the left of it.
- 2. Move the decimal point in the divisor after the number to turn it into a whole number and then move the decimal in the dividend the same number of places. Then bring it up.
- 3. Divide as if the numbers are both whole numbers.
- 4. Annex zeros in the dividend as needed until there is no remainder. If your answer is a repeating decimal, write the answer using bar notation.

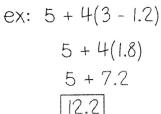
Order of Operations

- I. Grouping Symbols (parentheses, brackets, etc.)
- 2. Exponents
- 3. Multiplication \mathcal{E} Division (left to right)
- 4. Addition \mathcal{E} Subtraction (left to right)

+ 5552 48580 54132 54<u>132</u> 3 decimal places 54<u>132</u>

ex: 25.3 ÷ 0.3

0.3) 25,310 q



ex: 14.2 - 7.934

14.200 7.934

6.266

Evaluate each expression.

3

1. 5.983 + 2.99	2. 224 - 56.73	3. 6.12 - 4.923
4. 24.5 · 3.2	5. 0.23 · 7	6. 3.86 · 9.15
7. 14.8 ÷ 5	8. 46.3 ÷ 1.5	9. 147 ÷ 2.25
10. 24.33 - 2.5 · 7	11. 3.9 + 4.5 ²	12. 9.25(18.4 - 2 · 1.2)

Solve each word problem, showing all work.

13. Jeff had \$46.18 in his wallet Monday morning. He gave half of his money to his brother. He then bought two donuts for \$0.75 each and a cup of coffee for \$2.99. How much money did Jeff have left?	14. Five friends split a \$65.20 bill at a restaurant. They also each left \$2.75 for the tip. How much money did each person pay in all?
---	---

Adding Fractions & Mixed Numbers

- 1. Find a common denominator for the two fractions.
- 2. Add the two numerators and keep the denominator the same.
- 3. Add the whole numbers.
- 4. Simplify the answer and/or change improper fraction answers to mixed numbers.

Subtracting Fractions & Mixed Numbers

- I. Find a common denominator for the two fractions.
- 2. Subtract the two numerators and keep the denominators the same. If the top numerator is smaller than the bottom numerator, borrow from the whole number and rename the top fraction.
- 3. Subtract the whole numbers.
- 4. Simplify the answer.

Multiplying Fractions & Mixed Numbers

- I. Turn any mixed numbers and whole numbers into improper fractions.
- 2. Cross-simplify if possible.
- 3. Multiply the numerators and then multiply the denominators
- 4. Simplify the answer and/or change improper fraction answers to mixed numbers.

Dividing Fractions & Mixed Numbers

- I. Turn any mixed numbers and whole numbers into improper fractions.
- 2. Keep the first fraction the same, change the division to multiplication, and flip the second fraction to its reciprocal.
- 3. Multiply the fractions.
- 4. Simplify the answer and/or change improper fraction answers to mixed numbers.

$$5\frac{1}{4} - 1\frac{2}{3} - \frac{5\frac{1}{4} - 5\frac{3}{12} - 4\frac{15}{12}}{1\frac{2}{3} - 1\frac{8}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{4} - 5\frac{3}{12} - 4\frac{15}{12}}{1\frac{2}{3} - 1\frac{8}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{12}}{1\frac{2}{3} - 1\frac{8}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{12}}{1\frac{3}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{12}}{1\frac{12}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{12}}{1\frac{12}{12} - 1\frac{8}{12}} - \frac{5\frac{1}{12}}{1\frac{12}{12}} - \frac{5\frac{1}{12}}{1\frac{12}{12}}$$

 $3\frac{3}{4} = 3\frac{3}{4}$

 $2\frac{1}{2} = 2\frac{2}{4}$

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

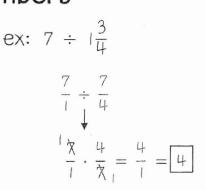
6-4

ex: $3\frac{3}{4} + 2\frac{1}{2}$

ex:

$$\frac{13}{3\%} \cdot \frac{4}{7}^2 = \frac{26}{21} = \boxed{1\frac{5}{21}}$$

ex: $2\frac{1}{6} \cdot \frac{4}{7}$



Evaluate each expression.

$15. \frac{4}{5} + \frac{3}{4}$	16. $4\frac{2}{7} + 2\frac{4}{14}$	17. $8\frac{11}{12} + 9\frac{5}{18}$
$18. \ 6 - \frac{3}{8}$	$19.8\frac{3}{5} - 2\frac{1}{3}$	20. $4\frac{1}{6} - \frac{8}{9}$
$21. \frac{4}{25} \cdot \frac{15}{16}$	22. $2\frac{3}{4}$ · 8	23. $6\frac{5}{8} \cdot 3\frac{1}{2}$
24. $\frac{7}{q} \div \frac{2}{3}$	25. $\frac{4}{5} \div 10$	26.5 $\frac{2}{3}$ ÷ 2 $\frac{5}{6}$

Solve each word problem, showing all work.

27. Jaimie ran 3 ¹ / ₂ miles on Monday. She ran half as far on Tuesday as she did on Monday. How far did Jaimie run in all on Monday and Tuesday?	28. A 5 ¹ / ₂ quart pot is filled ² / ₃ of the way with water. How many more quarts of water can the pot hold?
--	--

Ratios

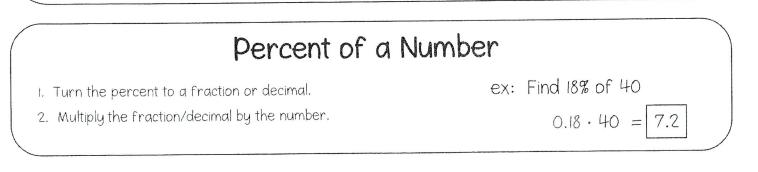
Ratios are comparisons of two quantities. There are 3 different ways to write ratios:

- Fraction $\left(\frac{A}{B}\right)$

- Colon (A:B)
- Word Form (A to B)

Ratios can be simplified just like fractions.

Rates & Unit Rates	
Rates are ratios that compare quantities measured in different units. ex: A unit rate is a rate with a denominator of 1.	express as a unit rate: 125 miles in 4 hours
 To convert a rate to a unit rate: I. Divide the numerator by the denominator 2. Either write your answer as a fraction with a label for the both the numerator and denominator OR as one number labeled with the first unit "per" the second unit 	$\frac{125 \text{ mi}}{4 \text{ hr}} 125 \div 4 = 31.25$ $\frac{31.25 \text{ mi}}{1 \text{ hr}} \text{ or } 31.25 \text{ miles per hr}$
To convert a: Fractions, Decimals, & Per	·
 <u>Decimal to Percent</u>: move the decimal point 2 places to the right <u>Percent to Decimal</u>: move the decimal point 2 places to the left 	ex: $0.345 = 34.5\%$ ex: $7\% = 0.07$
- <u>Decimal to Fraction</u> : write the decimal over the place value of the last digit and then simplify	ex: $0.008 = \frac{8}{1000} = \frac{1}{125}$
- Fraction to Decimal: divide the numerator by the denominator	ex: $\frac{1}{5} = 5$) 1.0
- <u>Percent to Fraction</u> : write the percent over 100 and then simplify	ex: $45\% = \frac{45}{100} = \frac{9}{20}$
- <u>Fraction to Percent</u> : convert the fraction to a decimal and then convert the decimal to a percent	ex: $\frac{3}{10} = 0.3 = 30\%$



ex: write the ratio of triangles to circles in 3 ways: 🛦 🛦 🛦 🔘 🔘

2:1, 2 to 1

2

 $\frac{4}{2} =$

Write each ratio in 3 ways.

the ratio of nickels to pennies. there a	contains 6 apples and some bananas. If re a total of 10 pieces of fruit, find the apples to bananas.
--	--

Convert each rate to a unit rate.

31. \$4.25 for 64 fluid ounces	32. 297 miles on 11 gallons of gas	33. 124 feet in 10 seconds

Complete the chart by converting each number to a percent, fraction, and/or decimal.

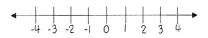
Fraction	Decimal	Percent
34. $\frac{3}{8}$		
35.	0.45	
36.		72%
37.	0.1	
38. $\frac{3}{200}$		

Find each percent of a number.

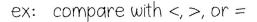
39. 30% of 90	40. 15% of 38	41. 50% of 86
42. 75% of 160	43. 24% of 35	44. 2% of 74

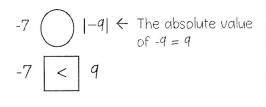
Comparing Integers

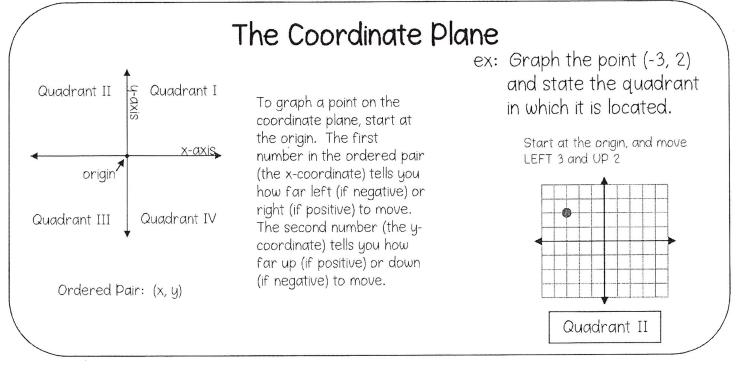
Integers are numbers without fractional parts. They can be positive, negative, or zero. The further right a number is on the number line, the greater it is.

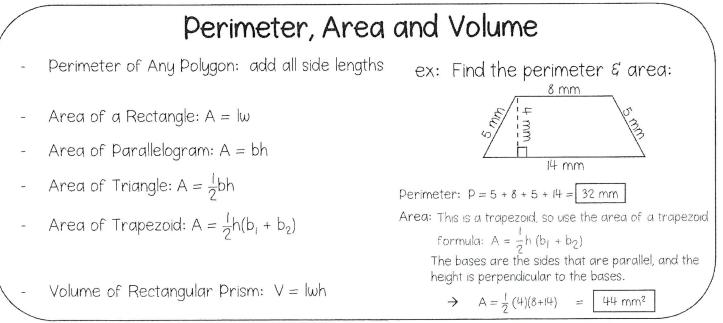


The absolute value of a number is the distance the number is from zero.









Compare the integers with <, >,or =.

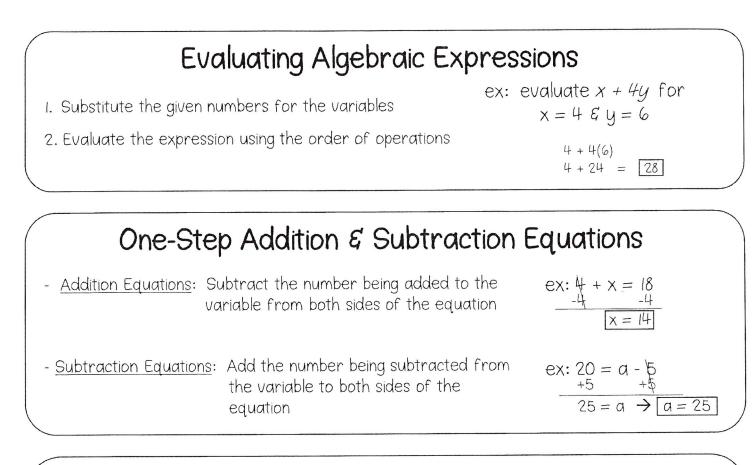
454 -5	46. 2 🔿 -2	47. -5 🔵 5	487 () 6	4913 -9
50. -7)-6	5117 -14	52. -3 -2	53. 0 🔵 -6	54. -4 🔵 6

Graph and label each of the ordered pairs in the coordinate plane. Then state the quadrant or axis in/on which the point is located.

55. A(2, 4)	56. B(0, -3)	
57. C(1, -1)	58. D(3, 3)	
59. E(-4, I)	60. F(2,0)	
61. 6(-3, -2)	62. H(-2, 3)	
63. I(0, 2)	64. J(-1, -4)	
<i>wy</i> . 1(<i>v</i> , <i>z</i>)	७५. ७(-1, -५)	

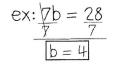
Find the perimeter, area, and/or volume of the given figure.

65. Find the perimeter ϵ area:	66. Find the perimeter ε area:	67. Find the perimeter ε area:
E 12 cm	8 in	$3\frac{1}{2}$ in
68. Find the perimeter & area:	69. Find the area of a square with a perimeter of 45 cm	70. Find the volume: E_{-100} G_{IJ}^{3} mm

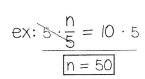


One-Step Multiplication & Division Equations

- <u>Multiplication Equations</u>: Divide both sides of the equation by the number next to the variable



- <u>Division Equations</u>: Multiply both sides of the equation by the number under the variable



Problem Solving

- 1. Read the problem. Identify the question that is being asked and the key information in the problem.
- 2. Plan how you are going to solve the problem and estimate the answer.
- 3. Solve the problem using the strategy of your choice.
- 4. Check your answer. Make sure your answer is reasonable and compare it to your estimate. Label your answer with appropriate units.

Evaluate each expression for a = 5, b = 12, c = 10, $\varepsilon = 2$.

71. 2b - a	72. d(ab – c)	73. 3 + $\frac{b}{d}$
40	75. 2α² – c	76. b-c+d
$74.\frac{4a}{b+4d}$		
-		

Solve each one-step equation.

77. g + 3 = 17	78. $r - 6 = 7$	79. $6b = 18$	80. $\frac{h}{q} = 3$
81. $5 = f - 8$	82. 48 = 12b	83. a + 24 = 83	84. 17 + x = 23
85. 10 = $\frac{m}{5}$	86. 86.5 = f − 7.63	87. $\frac{n}{6} = 11$	88. $\frac{3}{4}h = 12$

Solve each word problem using the method of your choice.

Solve each word problem using the method of ge	
89. A fencing company charges \$22 per foot to install a wood fence. How much will it cost to install a wood fence around a rectangular pool area that is 20 feet wide and 38 feet long?	90. A 6 inch-tall plant grew 34 of an inch one week and twice as much the following week. How tall is the plant now?
91. Jack can read 45 pages of his book in one and a half hours. At that rate, how long will it take him to read the entire 300-page book?	92. Brian ordered 3 large cheese pizzas and a salad. The salad cost \$4.95. If he spent a total of \$47.60 including the \$5 tip, how much did each pizza cost? (Assume there is no tax).
93. A cookie recipe calls for 3 ¹ / ₄ cups of flour. The recipe makes 3 dozen cookies. How much four is needed to make 144 cookies?	94. Ella has a box of chocolate candies. She gives $\frac{1}{3}$ of the candies to her sister, 4 to her brother, and she eats the remaining 12 candies. How many chocolate candies were in the box originally?

Solve each word problem using the method of your choice.

95. 20% of the 520 students in Wendover Middle School were involved in school sports. Of those students, 12.5% were on the wrestling team. How many students were on the wrestling team?	96. A piggy bank contains some dimes and nickels. There are 8 more dimes than nickels in the bank. There is a total of \$1.40. How many of each type of coin are in the bank?
97. An elevator in a tall building goes up 7 floors, then down 9 floors, down 4 floors, up 8 floors, and down 2 floors. Now it is on floor 14. On what floor did the elevator start?	98. Jenna danced for 3 hours on Sunday, 2 hours on Monday and Tuesday, 1 hour on Thursday, 1.5 hours on Friday, and 2 hours on Saturday. She did not dance at all on Wednesday. What is the average number of hours she danced each day? Round your answer to the nearest tenth of an hour.
99. Jackie makes \$15.25/hour babysitting. George makes \$18.50/hour mowing the lawn. If Jackie babysits for 4 hours and George mows lawns for 3 hours, who makes more money? How much more does he/she make?	100. A box of 8 crayons costs \$0.96. How much does each crayon cost? At that unit price, how much would a box of 30 crayons cost?

	Adding, Subtracting,	Multiplying and	l Dividing Integers (A)
--	----------------------	-----------------	-------------------------

Name:	Date:	Score:	
Calcula	te each sum, difference, produ	ct or quotient.	
$(+2) \times (-12) =$	$(-12) \div (-12)$	+12) =	
$(-132) \div (-12) =$	$(-2) \times (-$	+10) =	
(+8) + (+7) =	(-6) + (-6)	+12) =	
(-10) + (-10) =	$(+1) \times (-$	-10) =	
(+12) - (+5) =	(-12) - (-	-9) =	
(-10) + (-6) =	(+11) + (-	-3) =	
(+8) - (-2) =	(+6) + (-	+1) =	
(-12) + (+1) =	(-4) - (-	+2) =	
$(+9) \times (-12) =$	(+3) - (-	+3) =	
(+9) + (+11) =	(-3) - (-	-12) =	
$(+18) \div (-9) =$	(-11) + (-	-1) =	
$(+11) \times (-8) =$	(-11) + (-	-4) =	
(-7) + (-8) =	(-4) - (-	-9) =	
$(+44) \div (+11) =$	$(+2) \times (-$	-2) =	
$(-3) \times (-9) =$	(+8) - (+	+5) =	
(+9) + (-9) =	$(-5) \times (-$	-6) =	
$(+9) \times (-2) =$	(+11) + (-	-11) =	
(+5) + (-8) =	(+5) - (-		
(+9) - (-7) =	$(-6) \times (-6)$	-9) =	
(-1) - (-8) =	(+35) ÷ (+	-5) =	
$(+6) \times (-11) =$	(-2) + (+	-11) =	
$(-132) \div (-11) =$	(-11) - (-	-6) =	
(-10) - (+3) =	$(+3) \times (-$		
$(-8) \div (-1) =$	$(-48) \div (-$		
$(-27) \div (-3) =$	(+11) - (-		

Math-Drills.com

Adding, Subtracting, Multiplying and Dividing Integers (B)		
Name:	Date:	Score:
Calculate eac	h sum, difference, product	or quotient.
(+2) - (-8) =	(-8) - (+	-6) =
(-11) + (-7) =	$(-11) \times (+$	-3) =
$(-88) \div (-11) =$	$(-5) \times (+$	-11) =
$(+44) \div (-11) =$	$(-11) \times (-$	-2) =
(+10) + (+12) =	(-5) - (+	-9) =
$(+20) \div (-10) =$	$(+6) \times (+$	-11) =
(+10) - (+1) =	$(-10) \times (+$	-8) =
$(+8) \times (-4) =$	$(-8) \times (+$	-2) =
(-6) - (-10) =	(+11) – (+	,
(+12) - (-3) =	(-9) + (+	<i>,</i>
$(-50) \div (+5) =$	$(+4) \times (+$, ,
$(+9) \times (+9) =$	$(+3) \times (-$, ,
(+7) - (-10) =	$(-14) \div (+$,
(+7) + (+11) =	(+2) - (-	,
(-8) + (+7) =	$(-110) \div (+$,
$(+7) \times (-8) =$	(+6) + (-	
(+12) - (+1) =	(+2) + (+	
(+3) + (-10) =	(+4) + (-	
(+12) - (+7) =	$(+40) \div (+$	
$(-10) \times (+2) =$	(+2) - (+	
(-12) - (+5) =	(+8) + (-	
$(-6) \times (-12) =$	(-2) - (+	
$(-6) \times (-8) =$	$(+108) \div (-$	
(+4) + (-10) =	$(-16) \div (+$	
$(+10) \times (-6) =$	(-9) - (-	-5) =

Math-Drills.com

Order of Operations (J)

Name:

Date:

Simplify each expression using the correct order of operations.

$$(-6) \div 3 + 2^3 - (-8)$$
 $10 \div (-2) - (-7) + 6^2$

$$((-5) + 5 - (-4)^2) \times 3$$
 $(-2) \times 8 + 9^2 - 5$

$$(8 - (-4) + (-8))^2 \times 4$$
 $(-7) \times (-6) - 6 + 4^2$

$$(-2)^{2} - 6 + (-9) \times (-3)$$
 $(-4)^{2} \div 2 \times 10 + 4$

 $4^{2} - (-2) + (-8) \times (-9)$ $8 \div ((-8) - (-2) + 5)^{3}$

Answer Key

Evaluate each expression.

1. 5.983 + 2.99	2. 224 - 56.73	3. 6.12 - 4.923
8.973	167.27	1.197
4. 24.5 · 3.2	5. 0.23 · 7	6. 3.86 · 9.15
78.4	1.61	35.3 19
		ч.
7. 14.8 ÷ 5	8. 46.3 ÷ 1.5	9. 147 ÷ 2.25
2.96	30.86	65.3
10. 24.33 - 2.5 · 7	11. 3.9 + 4.5 ²	12. 9.25(18.4 - 2 · 1.2)
6.83	24.15	148
	1	

Solve each word problem, showing all work.

13.	Jeff had \$46.18 in his wallet Monday morning. He gave half of his money to his brother. He then bought two donuts for \$0.75 each and a cup of coffee for \$2.99. How much money did Jeff have left? \$ 18.60	14.	Five friends split a \$65.20 bill at a restaurant. They also each left \$2.75 for the tip. How much money did each person pay in all? \$ 15.79

Answer Key

Ev aluate each expression.

4 3	14 11 2 9	17 all = 5
15. $\frac{4}{5} + \frac{3}{4}$	$16.4\frac{2}{7}+2\frac{4}{14}$	17.8 $\frac{11}{12}$ + 9 $\frac{5}{18}$
$1\frac{11}{20}$	6 3	18 7 36
20	0 14	$10{36}$
18. $6 - \frac{3}{8}$	19. 8 $\frac{3}{5}$ - 2 $\frac{1}{3}$	20. $4\frac{1}{6} - \frac{8}{9}$
$5\frac{5}{8}$	$6\frac{4}{15}$	$3\frac{5}{18}$
8	0 15	J <u>18</u>
$21. \frac{4}{25} \cdot \frac{15}{16}$	22. 2 $\frac{3}{4}$ · 8	23. $6\frac{5}{8} \cdot 3\frac{1}{2}$
		7
$\frac{3}{20}$	22	$23\frac{3}{16}$
$24.\frac{7}{9} \div \frac{2}{3}$	$25.\frac{4}{5} \div 10$	$26.5\frac{2}{3} \div 2\frac{5}{6}$
4 3		
$\left \frac{1}{6} \right $	$\frac{2}{25}$	2
b	20	

Solve each word problem, showing all work.

27. Jaimie ran 3 ¹ / ₂ miles on Monday. She ran half as far on Tuesday as she did on Monday. How far did Jaimie run in all on Monday and Tuesday?	28. A $5\frac{1}{2}$ quart pot is filled $\frac{2}{3}$ of the way with water. How many more quarts of water can the pot hold?
$5\frac{1}{4}$ miles	1 <mark>5</mark> quarts

Write each ratio in 3 ways.

29. A bank contains 15 pennies and 12 nickels. Write the ratio of nickels to pennies.	30. A bowl contains 6 apples and some bananas. If there are a total of 10 pieces of fruit, find the ratio of apples to bananas.
4:5, 4 to 5, $\frac{4}{5}$	3:2, 3 to 2, $\frac{3}{2}$

Convert each rate to a unit rate.

31. \$4.25 for 64 fluid ounces	32. 297 miles on 11 gallons of gas	33. 124 feet in 10 seconds
\$0.07 per floz	27 mi/gal	12.4 ft/sec

Complete the chart by converting each number to a percent, fraction, and/or decimal.

Fraction	Decimal	Percent
$34. \frac{3}{8}$	0.375	37.5%
$\begin{array}{c} 35. \qquad \frac{9}{20} \end{array}$	0.45	45%
$\frac{36.}{25}$	0.72	72%
37. <u> </u> <u> </u>	0.1	10%
$38. \frac{3}{200}$	0.0 15	1.5%

Find each percent of a number.

39. 30% of 90	40. 15% of 38	41. 50% of 86
27	5.7	43
42. 75% of 160	43. 24% of 35	44. 2% of 74
120	8.4	1.48

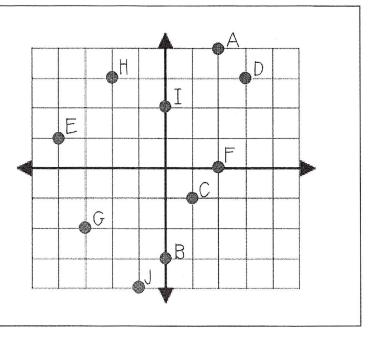
Answer Key

Compare the integers with <, >,or =.

454 > -5	46. 2 > -2	47. -5 = 5	487 < 6	4913 < -9
50. -7 > -6	5117 < -14	52. -3 > -2	53. 0 >-6	54. -4 < 6

Graph and label each of the ordered pairs in the coordinate plane. Then state the quadrant or axis in/on which the point is located.

\$
nt I
† II
† III



Find the perimeter, area, and/or volume of the given figure.

65. Find the perimeter ε area:	66. Find the perimeter & area:	67. Find the perimeter ε area:
$E_{L0} = \frac{\frac{13 \text{ cm}}{12 \text{ cm}}}{P = 30 \text{ cm}}$ $A = 30 \text{ cm}^{2}$	P = 26 in A = 28 in ²	$P = 14 \text{ in}$ $A = 12\frac{1}{4} \text{ in}^{2}$
68. Find the perimeter \mathcal{E} area:	69. Find the area of a square	70. Find the volume:
s ft	with a perimeter of 45 cm A = $126\frac{9}{16}$ cm ²	$\mathbb{E}_{-\frac{100}{2}}$
P = 22.5 ft A = 26.25 ft ²	(or 126.5625 cm ²)	$V = 28 \frac{11}{16} \text{ mm}^3$

Answer Key Evaluate each expression for $a = 5$, $b = 12$, $c = 10$, $\mathcal{E} d = 2$.			
71. 2b - a	72. d(ab – c)	73. 3 + $\frac{b}{d}$	
19	100	9	
74. $\frac{4a}{b+4d}$	75. 2a ² - c	76. b – c + d	
	40	4	
1			

Solve each one-step equation.

77. g + 3 = 17	78. r-6 = 7	79. $6b = 18$	80. $\frac{h}{q} = 3$
g = 14	r = 13	b = 3	h = 27
81. 5 = f - 8	82. 48 = 12b	83. a + 24 = 83	84. 17 + x = 23
f = 13	b = 4	a = 59	x = 6
85. $IO = \frac{m}{5}$	86. 86.5 = f - 7.63	87. <mark>n</mark> = 11	88. $\frac{3}{4}$ h = 12
m = 50	f = 94.13	n = 66	h = 16

89. A fencing company charges \$22 per foot to install a wood fence. How much will it cost to install a wood fence around a rectangular pool area that is 20 feet wide and 38 feet long?	90. A 6 inch-tall plant grew ¾ of an inch one week and twice as much the following week. How tall is the plant now?
\$2,552	8 ¹ / ₄ inches tall
91. Jack can read 45 pages of his book in one and a half hours. At that rate, how long will it take him to read the entire 300-page book?	92. Brian ordered 3 large cheese pizzas and a salad. The salad cost \$4.95. If he spent a total of \$47.60 including the \$5 tip, how much did each pizza cost? (Assume there is no tax).
10 hours	\$ 12.55
93. A cookie recipe calls for 3 ¹ / ₄ cups of flour. The recipe makes 3 dozen cookies. How much four is needed to make 144 cookies?	94. Ella has a box of chocolate candies. She gives $\frac{1}{3}$ of the candies to her sister, 4 to her brother, and she eats the remaining 12 candies. How many chocolate candies were in the box originally?
13 cups of flour	24 chocolate candies

Answer Key Solve each word problem using the method of your choice.

Solve each word problem asing the method of g	
95. 20% of the 520 students in Wendover Middle School were involved in school sports. Of those students, 12.5% were on the wrestling team. How many students were on the wrestling team?	96. A piggy bank contains some dimes and nickels. There are 8 more dimes than nickels in the bank. There is a total of \$1.40. How many of each type of coin are in the bank?
13 students	4 nickels & 12 dimes
97. An elevator in a tall building goes up 7 floors, then down 9 floors, down 4 floors, up 8 floors, and down 2 floors. Now it is on floor 14. On what floor did the elevator start?	98. Jenna danced for 3 hours on Sunday, 2 hours on Monday and Tuesday, 1 hour on Thursday, 1.5 hours on Friday, and 2 hours on Saturday. She did not dance at all on Wednesday. What is the average number of hours she danced each day? Round your answer to the nearest tenth of an
the 14 th floor	hour.
	about 1.6 hours
99. Jackie makes \$15.25/hour babysitting. George makes \$18.50/hour mowing the lawn. If Jackie babysits for 4 hours and George mows lawns for 3 hours, who makes more money? How much more does he/she make?	100. A box of 8 crayons costs \$0.96. How much does each crayon cost? At that unit price, how much would a box of 30 crayons cost?
Jackie makes \$5.50	\$3.60
more than George.	

Adding, Subtracting	g, Multiplying ar	nd Dividing Integers (A) Answers
Name:	Date:	Score:
Calculate	e each sum, differe	nce, product or quotient.
$(+2) \times (-12) = (-2)$	24) ($(-12) \div (+12) = (-1)$
$(-132) \div (-12) = (+12)$	11)	$(-2) \times (+10) = (-20)$
(+8) + (+7) = (+7)	15)	(-6) + (+12) = (+6)
(-10) + (-10) = (-2)	20)	$(+1) \times (-10) = (-10)$
(+12) - (+5) = (+12) + (+12)	+7) (-12) - (-9) = (-3)
(-10) + (-6) = (-3)	16) (+11) + (-3) = (+8)
(+8) - (-2) = (+3)	10)	(+6) + (+1) = (+7)
(-12) + (+1) = (-12)	11)	(-4) - (+2) = (-6)
$(+9) \times (-12) = (-10)$	08)	(+3) - (+3) = (0)
(+9) + (+11) = (+2)	20)	(-3) - (-12) = (+9)
$(+18) \div (-9) = (-$	-2) (-11) + (-1) = (-12)
$(+11) \times (-8) = (-8)$	88) (-11) + (-4) = (-15)
(-7) + (-8) = (-3)	15)	(-4) - (-9) = (+5)
$(+44) \div (+11) = (+1)$	⊦4)	$(+2) \times (-2) = (-4)$
$(-3) \times (-9) = (+2)$	27)	(+8) - (+5) = (+3)
(+9) + (-9) =	(0)	$(-5) \times (-6) = (+30)$
$(+9) \times (-2) = (-2)$	18) (+11) + (-11) = (0)
(+5) + (-8) = (-6)	-3)	(+5) - (-12) = (+17)
(+9) - (-7) = (+2)	16)	$(-6) \times (-9) = (+54)$
(-1) - (-8) = (+	+7) ($+35) \div (+5) = (+7)$
$(+6) \times (-11) = (-6)$	66)	(-2) + (+11) = (+9)
$(-132) \div (-11) = (+1)$	12) (-11) - (-6) = (-5)
(-10) - (+3) = (-2)	13)	$(+3) \times (-5) = (-15)$
$(-8) \div (-1) = (+$	+8) ($-48) \div (-12) = (+4)$
$(-27) \div (-3) = (+$	-9) (+11) - (-7) = (+18)

Math-Drills.com

Adding, Subtracting,	Multiplying and	Dividing Integers	(B) Answers
0, 0,	1 0	8 8	

rading, Subtracting, M	and Dividing integers (D) Answer
Name:	Date: Score:
Calculate each sum, difference, product or quotient.	
(+2) - (-8) = (+10)	(-8) - (+6) = (-14)
(-11) + (-7) = (-18)	$(-11) \times (+3) = (-33)$
$(-88) \div (-11) = (+8)$	$(-5) \times (+11) = (-55)$
$(+44) \div (-11) = (-4)$	$(-11) \times (-2) = (+22)$
(+10) + (+12) = (+22)	(-5) - (+9) = (-14)
$(+20) \div (-10) = (-2)$	$(+6) \times (+11) = (+66)$
(+10) - (+1) = (+9)	$(-10) \times (+8) = (-80)$
$(+8) \times (-4) = (-32)$	$(-8) \times (+2) = (-16)$
(-6) - (-10) = (+4)	(+11) - (+11) = (0)
(+12) - (-3) = (+15)	(-9) + (+11) = (+2)
$(-50) \div (+5) = (-10)$	$(+4) \times (+9) = (+36)$
$(+9) \times (+9) = (+81)$	$(+3) \times (-4) = (-12)$
(+7) - (-10) = (+17)	$(-14) \div (+7) = (-2)$
(+7) + (+11) = (+18)	(+2) - (-9) = (+11)
(-8) + (+7) = (-1)	$(-110) \div (+10) = (-11)$
$(+7) \times (-8) = (-56)$	(+6) + (-4) = (+2)
(+12) - (+1) = (+11)	(+2) + (+6) = (+8)
(+3) + (-10) = (-7)	(+4) + (-12) = (-8)
(+12) - (+7) = (+5)	$(+40) \div (+8) = (+5)$
$(-10) \times (+2) = (-20)$	(+2) - (+4) = (-2)
(-12) - (+5) = (-17)	(+8) + (-12) = (-4)
$(-6) \times (-12) = (+72)$	(-2) - (+3) = (-5)
$(-6) \times (-8) = (+48)$	$(+108) \div (-9) = (-12)$
(+4) + (-10) = (-6)	$(-16) \div (+4) = (-4)$
$(+10) \times (-6) = (-60)$	(-9) - (-5) = (-4)

Math-Drills.com

Order of Operations (J) Answers

Name:

Date:

Simplify each expression using the correct order of operations.

$$\begin{array}{ll} (-6) \div 3 + \frac{2^3}{3} - (-8) & 10 \div (-2) - (-7) + \frac{6^2}{3} \\ = \frac{(-6) \div 3}{3} + 8 - (-8) & = \frac{10 \div (-2)}{3} - (-7) + 36 \\ = \frac{(-2) + 8}{3} - (-8) & = \frac{10 \div (-2)}{3} - (-7) + 36 \\ = \frac{(-5) - (-7)}{3} + 36 & = \frac{2 \pm 36}{38} \\ \hline \\ ((-5) + 5 - \frac{(-4)^2}{3}) \times 3 & (-2) \times 8 + \frac{9^2}{3} - 5 \\ = \frac{((-5) + 5 - 16) \times 3}{3} & = \frac{(-2) \times 8}{38} + 81 - 5 \\ = \frac{(-16) \times 3}{3} & = \frac{65 - 5}{3} \\ = -48 & -5 \\ = \frac{(-16) \times 3}{3} & = \frac{65 - 5}{3} \\ = -48 & -5 \\ = \frac{(-16) \times 3}{4} & = \frac{65 - 5}{3} \\ = \frac{(-16) \times 4}{3} & = \frac{65 - 5}{3} \\ = \frac{(-7) \times (-6) - 6 + \frac{4^2}{3}}{4} \\ = \frac{(-7) \times (-6) - 6 + 16}{4} \\ = \frac{4^2 \times 4}{4} & = \frac{36 + 16}{3} \\ = \frac{16 \times 4}{4} & = 52 \\ = 64 \\ \hline \\ \frac{(-2)^2 - 6 + (-9) \times (-3)}{4} & = \frac{16 \div 2 \times 10 + 4}{4} \\ = \frac{(-2) + 27}{25} & = \frac{88 \times 10}{4} + 4 \\ = \frac{(-2) + 27}{25} & = \frac{88 + (10) + 4}{4} \\ = \frac{4^2 - (-2) + (-8) \times (-9)}{25} \\ = \frac{16 - (-2) + (-8) \times (-9)}{4} & = \frac{8 \div (-1)^3}{3} \\ = \frac{90}{4} & = \frac{8 \div (-1)}{3} \\ = \frac{8 \div (-1)}{2 - 8} \end{array}$$