Rising 7th grade

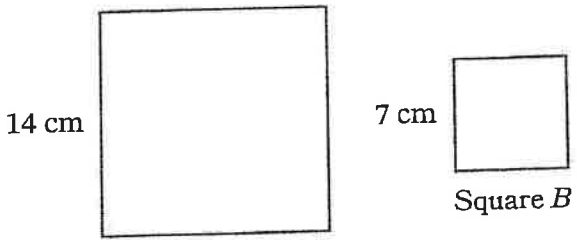
6-week summer packet pacing guide:

Week one	Pre-module assessment – Mod 1 *4 pages*
Week two	Pre-module assessment – Mod 2 x 3 *5 pages*
Week three	Pre-module assessment – Mod 4 x 5 *4 pages*
Week four	Order of operations Multiplying and dividing by powers of 10 Integer operations *5 pages*
Week five	Fraction/ Decimal/ Percent/ Ratio *3 pages*
Week six	Fraction operations One-step equations *5 pages*

Pre-Module Assessment

Name _____ Date _____

1. Consider the figure.



Square A Square B

Which is a ratio of the side length of square A to the side length of square B? Choose **all** that apply.

A. 1:2

B. 2:1

C. 7:14

D. 14:7

E. 14:28

F. 28:14

2. For every 15 black beads on a necklace, there are 5 gold beads. What is the unit rate associated with the ratio of the number of black beads to the number of gold beads?

The unit rate is _____.

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3. A falcon, an eagle, and a dove fly at constant rates.
   - The falcon flies 25 miles in 30 minutes.
   - The eagle flies 18 miles in 35 minutes.
   - The dove flies 10 miles in 15 minutes.

   Circle an answer choice to complete the sentence.

   The _____ flies at the slowest rate.

   falcon

   eagle

   dove

4. The table shows the ratio relationship between the number of cups of sugar and the number of cups of milk for a recipe. Complete the table.

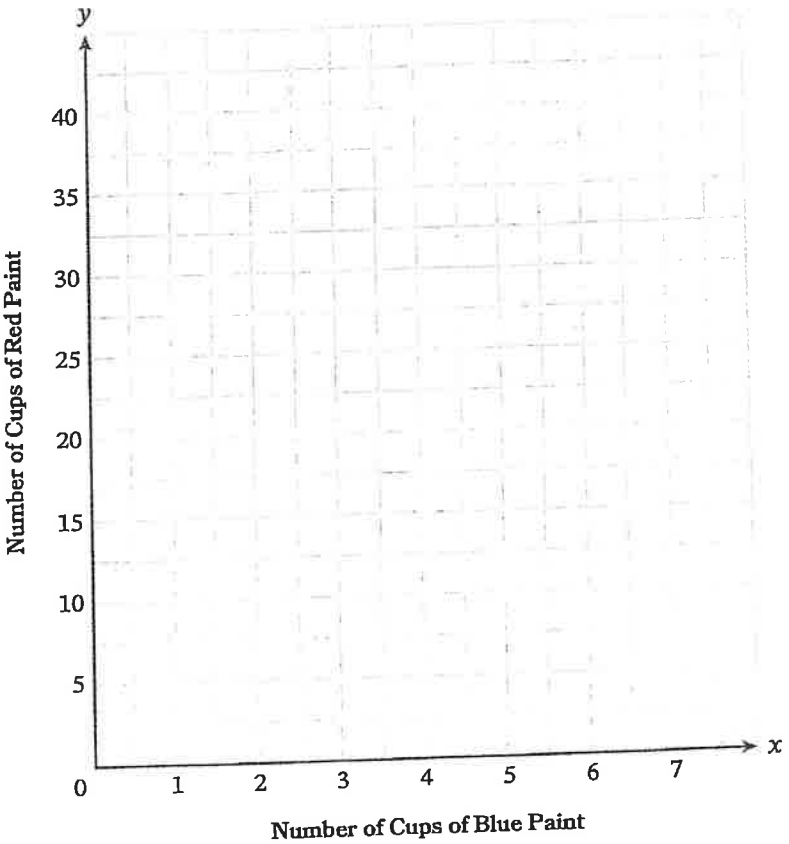
Number of Cups of Sugar, x	**Number of Cups of Milk, y**
1	
2	12
	24
6	

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5. Consider the table shown. It describes the ratio relationship between the number of cups of blue paint and the number of cups of red paint to make a shade of purple.

Number of Cups of Blue Paint, x	Number of Cups of Red Paint, y
1	5
2	10
4	20
6	30

Plot four points in the coordinate plane that represent the pairs of numbers shown in the table.



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6. Consider the relationship between time t in hours and distance d in miles represented in the table.

Time, t (hours)	**Distance, d (miles)**
4	48
6	72
8	96

Which equation represents the relationship between t and d?

A. $t = \frac{12}{d}$

B. $t = 12d$

C. $d = 12t$

D. $d = \frac{12}{t}$

7. Mr. Banks stops at a gas station that charges \$3.00 per gallon of gas. Mr. Banks spends \$36.00 on gas.

Part A

Write an equation that could be used to find the number of gallons of gas g that Mr. Banks buys for \$36.00.

_____

Part B

Solve your equation from part A to find the number of gallons of gas Mr. Banks buys.

Mr. Banks buys _____ gallons of gas.

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Pre-Module Assessment

Name _____ Date _____

1. Complete each number sentence to make it true. Write one number from the given answer choices in each box.

$2 \div 6 = \frac{\square}{\square}$

$\frac{1}{7} = \square \div \square$

Answer Choices

1	2	6	7

2. Divide.

$1{,}938 \div 24 =$ _____

3. Evaluate the expression.

$\frac{1}{2} + 2(3.5) - \frac{2}{5}$

_____

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4. A city has an elevation of 3,869 meters above sea level, where 3,869 represents the city's elevation. What number represents an elevation of 112 meters below sea level?

_____

5. Evaluate the expression.

$-(-6)$

_____

6. Order the numbers from least to greatest. Write one number from the given answer choices in each box.

Least					**Greatest**

Answer Choices

$\lvert 0.7 \rvert$	$-2\frac{1}{3}$	-6.4	$\left\lvert \frac{13}{8} \right\rvert$	1	$\left\lvert -\frac{2}{9} \right\rvert$

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7. Determine which expression represents each description. Write one expression from the given answer choices in each box.

Description	Expression
The product of 5 and the sum of a number and 2	
The quotient of 5 and the sum of a number and 2	
Two times the difference of a number and 5	
The sum of a number and 5, doubled	

Answer Choices

$2(x+5)$	$2(x-5)$	$5(x+2)$	$5 \div (x+2)$

8. Solve.

$x + 4 = 15$

_____

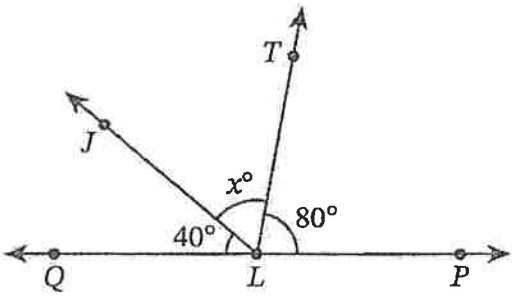
9. A shop sells tacos for $3.75 each. On Monday, the shop makes $240 from selling tacos. How many tacos does the shop sell on Monday?

_____ tacos

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10. The diagram shows $\overleftrightarrow{QP}$, $\overrightarrow{LJ}$, and $\overrightarrow{LT}$ intersecting at point L. The measure of $\angle QLP$ is 180°.



Solve for x.

_____

11. Which of these expressions are equivalent to $3(x + 2y) + 4x + 6y$? Choose **all** that apply.

A. $7x + 8y$

B. $7x + 12y$

C. $3x + 2y + 4x + 6y$

D. $3x + 6y + 4x + 6y$

E. $3(x + 2y) + 2(2x + 3y)$

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12. Choose **all** the values that make the inequality true.

$$4x + 1 > 9$$

A. 0

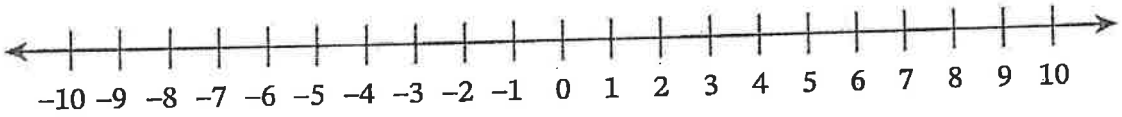
B. 2

C. 3

D. $\frac{5}{3}$

E. 8

13. Graph the solutions to $x < 7$ on the number line.



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Pre-Module Assessment

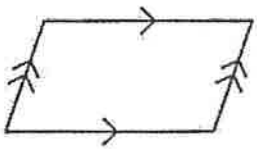
Name _____ Date _____

1. Match each shape with its most specific name. Write the letter that corresponds to a shape in each box.

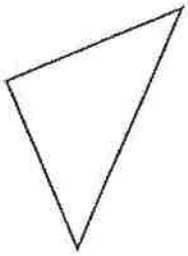
Shape Name	Shape
hexagon	
octagon	
parallelogram	
pentagon	
trapezoid	
triangle	

Answer Choices

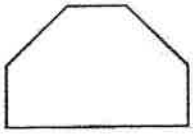
A.



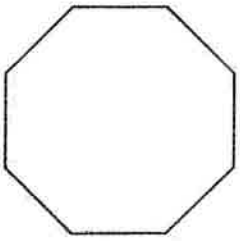
B.



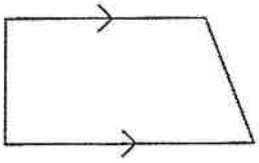
C.



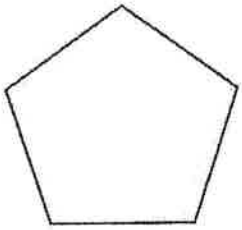
D.



E.



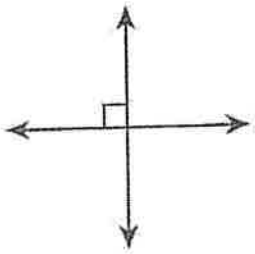
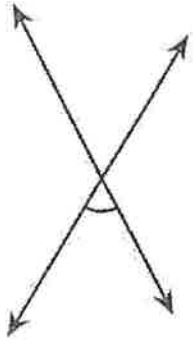
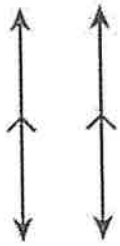
F.



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2. Identify the lines in each figure as parallel, perpendicular, or neither parallel nor perpendicular. Write the description from the given answer choices in each box.

Figure	Shape
	
	
	

Answer Choices

parallel	perpendicular	neither parallel nor perpendicular

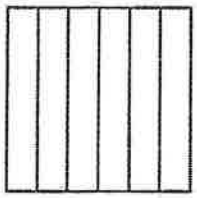
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Pre-Module Assessment

Name _____ Date _____

1. The rectangle is divided into equal-sized parts.



What fraction of the rectangle is shaded?

A. $\frac{1}{6}$

B. $\frac{2}{4}$

C. $\frac{2}{6}$

D. $\frac{4}{6}$

2. Write each fraction in decimal form. Use bar notation if appropriate.

Fraction	Decimal
$\frac{1}{8}$	
$\frac{2}{9}$	

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3. Jonas makes school spirit bracelets. Out of every 12 bracelets, 7 are green. He makes 60 bracelets. How many bracelets are green?

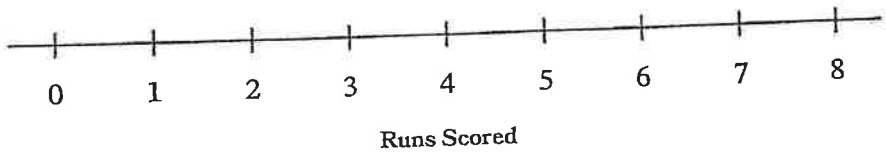
   There are _____ green bracelets.

4. A baseball team plays 20 games. The tally chart shows the number of runs scored by the baseball team in each game.

Runs Scored	0	1	2	3	4	5	6	7	8
Tally	|	|||		||||	||	||	||||	|	||

Create a dot plot by using this data set.

Baseball Games



Runs Scored

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Order of Operations (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-10) \times 2 - (-7)^2$

$6 \times 5 + (-4)^2$

$(-8) \times (-6) - (-5)^2$

$8 - 5 \times 4^2$

$2^2 \times (-9) - 9$

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

$5 - (-4) \times (-3)^2$

$10 \times (-5) + (-6)^2$

$(7 - 8) \times 2^2$

$(-7) \times (-4) + 2^3$

Multiply and Divide by 10 (A)

Find each product or quotient.

$4.314 \times 10 =$

$8.45 \times 10 =$

$9.528 \times 10 =$

$7.6364 \times 10 =$

$9.88 \div 10 =$

$4.2 \div 10 =$

$6.5464 \div 10 =$

$7.6 \times 10 =$

$9.4 \times 10 =$

$5.75 \times 10 =$

$8.768 \div 10 =$

$6.0139 \times 10 =$

$4.06 \div 10 =$

$1.952 \div 10 =$

$7.0081 \times 10 =$

$9.788 \times 10 =$

$6.13 \times 10 =$

$7.3225 \div 10 =$

$8.4 \div 10 =$

$2.6061 \div 10 =$

Multiply and Divide by 100 (A)

Find each product or quotient.

$9{,}028 \times 100 =$	$8{,}668 \times 100 =$
$1{,}65 \div 100 =$	$7{,}8 \times 100 =$
$6{,}2451 \div 100 =$	$8{,}7 \times 100 =$
$2{,}804 \times 100 =$	$5{,}96 \times 100 =$
$0{,}1 \div 100 =$	$4{,}848 \div 100 =$
$2{,}7 \div 100 =$	$7{,}2993 \div 100 =$
$2{,}0009 \times 100 =$	$6{,}639 \times 100 =$
$4{,}69 \div 100 =$	$4{,}97 \times 100 =$
$0{,}2736 \times 100 =$	$9{,}18 \div 100 =$
$9{,}36 \div 100 =$	$6{,}572 \div 100 =$

Adding, Subtracting, Multiplying and Dividing Integers (A)

Name: _____ Date: _____ Score: _____

Calculate each sum, difference, product or quotient.

$-9 \div 1 =$
$-8 - (-6) =$
$-5 - 8 =$
$-6 + (-4) =$
$-7 - (-4) =$
$14 \div (-2) =$
$7 + (-3) =$
$1 \times 6 =$
$9 - 9 =$
$8 - (-7) =$
$4 \times (-9) =$
$1 \times (-9) =$
$-4 \times 2 =$
$-7 - (-1) =$
$9 + 3 =$
$1 - 3 =$
$54 \div (-9) =$
$-1 + 8 =$
$4 + (-6) =$
$-20 \div (-5) =$
$49 \div (-7) =$
$2 + 8 =$
$-8 + (-2) =$
$-2 \times 7 =$
$-8 \times 1 =$

$1 \times (-7) =$
$-72 \div (-9) =$
$-4 + 7 =$
$2 + (-1) =$
$-48 \div (-8) =$
$1 - 1 =$
$6 + (-2) =$
$1 \times (-4) =$
$7 - 8 =$
$-5 + 9 =$
$5 + 7 =$
$-42 \div (-6) =$
$9 \times (-4) =$
$4 \times (-3) =$
$-4 + (-8) =$
$-3 - (-2) =$
$-9 + 8 =$
$-6 - 7 =$
$5 \times (-3) =$
$6 - 6 =$
$2 \div 2 =$
$-3 + (-3) =$
$-2 \times 2 =$
$-3 - 1 =$
$8 \times (-8) =$

Adding, Subtracting, Multiplying and Dividing Integers (B)

Name: _____ Date: _____ Score: _____

Calculate each sum, difference, product or quotient.

$7 \div 1 =$	$-21 \div (-3) =$
$-9 - (-6) =$	$4 - (-6) =$
$-24 \div 3 =$	$2 - 7 =$
$9 \times (-5) =$	$-9 \times (-1) =$
$-7 \times (-5) =$	$-9 - 4 =$
$1 - 8 =$	$-16 \div (-2) =$
$-1 - (-6) =$	$2 + 1 =$
$-6 - (-5) =$	$-7 + 4 =$
$7 + 9 =$	$1 + 7 =$
$5 - 8 =$	$81 \div (-9) =$
$-8 - 8 =$	$-25 \div 5 =$
$30 \div 6 =$	$1 - 3 =$
$18 \div 9 =$	$72 \div (-8) =$
$5 \times (-9) =$	$-16 \div (-4) =$
$8 \times 5 =$	$8 - 9 =$
$56 \div 7 =$	$-1 \div 1 =$
$7 \times (-2) =$	$5 + (-1) =$
$1 + 4 =$	$-6 + 6 =$
$8 \times 6 =$	$-4 + (-9) =$
$-2 \times 6 =$	$6 - 2 =$
$2 - (-3) =$	$42 \div (-7) =$
$5 - (-4) =$	$-6 - (-9) =$
$-48 \div (-8) =$	$-5 + 2 =$
$-7 - 8 =$	$6 \div (-2) =$
$4 + 2 =$	$-1 - (-2) =$

Converting Fractions (A)

Name: _____ Date: _____

Fill in the missing values. Use part-to-**whole** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{1}{2}$			
2.	$\frac{9}{10}$			
3.	$\frac{3}{10}$			
4.	$\frac{4}{5}$			
5.	$\frac{3}{4}$			
6.	$\frac{13}{20}$			
7.	$\frac{5}{8}$			
8.	$\frac{2}{5}$			
9.	$\frac{3}{8}$			
10.	$\frac{1}{4}$			

Converting Fractions (B)

Name: _____ Date: _____

Fill in the missing values. Use part-to-**whole** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{3}{10}$			
2.	$\frac{1}{2}$			
3.	$\frac{7}{20}$			
4.	$\frac{3}{5}$			
5.	$\frac{3}{8}$			
6.	$\frac{1}{4}$			
7.	$\frac{7}{8}$			
8.	$\frac{3}{4}$			
9.	$\frac{2}{5}$			
10.	$\frac{7}{10}$			

Converting Fractions (C)

Name: _____ Date: _____

Fill in the missing values. Use part-to-**whole** ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{3}{4}$			
2.	$\frac{1}{2}$			
3.	$\frac{7}{10}$			
4.	$\frac{4}{5}$			
5.	$\frac{1}{4}$			
6.	$\frac{1}{8}$			
7.	$\frac{7}{8}$			
8.	$\frac{7}{25}$			
9.	$\frac{3}{10}$			
10.	$\frac{2}{5}$			

Adding and Subtracting Two Fractions (A)

Name: _____ Date: _____ Score: _____

Calculate each result.

1. $\frac{34}{10} - \frac{4}{5} = \frac{34}{10} - \frac{8}{10} = \frac{26}{10} = \frac{13}{5} = 2\frac{3}{5}$

   Denominator · Solve · Simplify · Convert ↓

2. $\frac{40}{14} - \frac{1}{2} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3. $\frac{13}{6} + \frac{53}{18} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. $\frac{1}{3} + \frac{9}{6} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $\frac{5}{3} - \frac{6}{18} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $\frac{14}{4} - \frac{7}{8} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $\frac{19}{5} + \frac{7}{10} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $\frac{7}{4} + \frac{6}{8} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $\frac{4}{7} + \frac{49}{14} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

10. $\frac{5}{3} - \frac{9}{18} = \frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Multiplying and Dividing Proper and Improper Fractions (A)

Name: _____ Date: _____ Score: _____

Calculate each result.

1. $\frac{1}{5} \div \frac{3}{2} = \frac{1}{5} \times \frac{2}{3} = \frac{2}{15}$
   Inversion Result

2. $\frac{1}{3} \div \frac{9}{4} = __ \times __ = __$

3. $\frac{11}{4} \times \frac{1}{3} = __$

4. $\frac{1}{6} \times \frac{5}{2} = __$

5. $\frac{1}{4} \times \frac{3}{2} = __$

6. $\frac{4}{5} \div \frac{7}{3} = __ \times __ = __$

7. $\frac{3}{2} \times \frac{1}{8} = __$

8. $\frac{1}{5} \times \frac{16}{9} = __$

9. $\frac{1}{6} \div \frac{11}{7} = __ \times __ = __$

10. $\frac{1}{3} \div \frac{5}{4} = __ \times __ = __$

Multiplying and Dividing Mixed Fractions (A)

Name: _____ Date: _____ Score: _____

Calculate each result.

1. $1\frac{7}{8} \times 1\frac{2}{5} = \frac{15}{8} \times \frac{7}{5} = \frac{10}{40} = \frac{21}{8} = 2\frac{5}{8}$

   Convert ↑ Result Simplify Convert ↓

2. $4\frac{7}{8} \div 1\frac{3}{4} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3. $4\frac{5}{7} \times 1\frac{1}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. $4\frac{2}{3} \div 2\frac{1}{9} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $5\frac{3}{5} \times 2\frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $5\frac{4}{7} \div 1\frac{4}{9} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $4\frac{1}{7} \times 3\frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $1\frac{1}{3} \times 1\frac{1}{4} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $2\frac{1}{2} \div 2\frac{1}{2} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

10. $1\frac{2}{9} \div 5\frac{1}{2} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Name : _____

One-Step Equations: Integers

Solve each equation.

1) $3 + a = -13$

2) $y - 10 = -5$

3) $-6s = 35$

4) $-5 = -\frac{k}{8}$

5) $m + 2 = -7$

6) $\frac{b}{2} = -1$

7) $7 = t - 3$

8) $18z = -9$

9) $-\frac{p}{6} = 9$

10) $-4 + w = -12$

Name : _____

One-Step Equations: Integers

Mixed Operations Level 1: S1

Solve each equation.

1) $10 = z + 6$

2) $8y = 48$

3) $q - 12 = 1$

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

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

6) $11 = m - 4$

7) $t - 19 = 2$

8) $1 + s = 3$

9) $24 = 4c$

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