

SUMMER MATH PACKET

6th GRADE ENTERING 7TH GRADE



Name: _____

Date _____

SKILL: Divide a whole number, with and without remainders, up to four digits

Solve each problem.

$$6 \overline{) 1,242}$$

$$32 \overline{) 7,584}$$

$$12 \overline{) 9,744}$$

Name: _____

Date _____

SKILL: Divide a whole number, with and without remainders, up to four digits

$$131 \overline{) 9,308}$$

$$9 \overline{) 3,584}$$

$$25 \overline{) 5,592}$$

Name: _____

Date _____

SKILL: Identify the Least Common Denominator (LCD) for two fractions

Directions: Find the Least Common Denominator for each set of fractions

1. $\frac{1}{4}$ and $\frac{3}{5}$

2. $\frac{2}{3}$ and $\frac{1}{8}$

3. $\frac{1}{2}$ and $\frac{7}{10}$

4. $\frac{5}{8}$ and $\frac{1}{2}$

5. $\frac{2}{5}$ and $\frac{1}{6}$

Name: _____

Date _____

SKILL: Identify the Least Common Denominator (LCD) for two fractions

Directions: Use the Least Common Denominator to find equivalent fractions for each problem.

1. $\frac{1}{4}$ and $\frac{1}{6}$

2. $\frac{2}{7}$ and $\frac{3}{4}$

3. $\frac{1}{8}$ and $\frac{5}{12}$

Name: _____

Date _____

SKILL: Use divisibility rules

Directions: Use the "Divisibility Rules" and your calculators to list the factors of each pair of numbers. What is the Greatest Common Factor for each pair of numbers?

30 factors : _____

64 factors: _____

GFC for 30 and 64 is _____

18 factors: _____

90 factors : _____

GFC for 18 and 90 is _____

Name: _____

Date _____

SKILL: Use divisibility rules

Write the numbers that divide into it on the line next to the number.

1) 225 _____

2) 136 _____

3) 7210 _____

4) 5728 _____

5) 1575 _____

Name: _____

Date _____

SKILL: Identify the least common multiple for a set of whole numbers less than 12

Directions: Find the LCM.

5, 7 _____

5, 8 _____

9, 12 _____

3, 6, 9 _____

Name: _____

Date _____

SKILL: Multiply decimals, two to three decimal digits

$$\begin{array}{r} 1) \quad 4.36 \\ \times \quad 0.57 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 3.52 \\ \times \quad 0.64 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 9.12 \\ \times \quad 1.78 \\ \hline \end{array}$$

Name: _____

Date _____

SKILL: Identify the Greatest Common Factor (GCF) for a set of whole numbers

Find the Greatest Common Factor for the set of numbers.

1. 18 and 24 = _____

2. 12 and 16 = _____

3. 18 and 16 = _____

4. 20 and 24 = _____

5. 9 and 15 = _____

Name: _____

Date _____

SKILL: Multiply decimals, two to three decimal digits

$$\begin{array}{r} 1) \quad 0.157 \\ \times \quad 0.049 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 0.632 \\ \times \quad 0.007 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 0.549 \\ \times \quad 0.378 \\ \hline \end{array}$$

Name: _____

Date _____

SKILL: Multiply a decimal by a decimal, with factors up to the thousandths place

$$\begin{array}{r} 1. \quad 0.357 \\ \times 0.943 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 0.159 \\ \times 0.761 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 0.369 \\ \times 0.846 \\ \hline \end{array}$$

Name: _____

Date _____

SKILL: Divide decimals by a whole number, up to two digits

$$19 \overline{)0.285}$$

$$26 \overline{)1.1830}$$

$$5 \overline{)5.460}$$

$$8 \overline{)1.76}$$

Name: _____

Date _____

SKILL: Divide a decimal by a whole number

$$25 \overline{)50.75}$$

$$3 \overline{)2.1}$$

$$35 \overline{)8.47}$$

$$72 \overline{)3.60}$$

$$6 \overline{)9.78}$$

Name: _____

Date _____

SKILL: Divide a decimal by a whole number, three decimal digits

$$6 \overline{)0.546}$$

$$2 \overline{)0.106}$$

$$4 \overline{)0.232}$$

Name: _____

Date _____

SKILL: Divide decimals, one decimal digit divisor

1) $0.6 \overline{) 0.18}$

2) $9.6 \overline{) 8.160}$

3) $0.8 \overline{) 0.0272}$

4) $5.2 \overline{) 62.4}$

Name: _____

Date _____

SKILL: Express a decimal as a percent and a percent as a decimal

Directions: Change the following decimals to percents:

1) $0.83 =$ _____

2) $0.04 =$ _____

3) $0.4 =$ _____

4) $0.2 =$ _____

5) $1.35 =$ _____

Name: _____

Date _____

Independent Practice Sheet

Directions: Match the decimals to the correct percents.

A. 0.50

a. 156%

B. 0.05

b. 80%

C. 0.65

c. 50%

D. 0.85

d. 15%

E. 0.8

e. 5%

F. 1.56

f. 65%

G. 0.15

g. 85%

Directions: Change each decimal to a percent.

1) $0.5 =$ _____

6) $0.87 =$ _____

2) $3.42 =$ _____

7) $0.45 =$ _____

3) $0.8 =$ _____

8) $0.96 =$ _____

4) $0.17 =$ _____

9) $1.3 =$ _____

5) $1.56 =$ _____

10) $0.1 =$ _____

Name: _____

Date _____

SKILL: Express a percent as a decimal

1) 65% _____

2) 34% _____

3) 4% _____

4) 132% _____

5) 1% _____

6) 120% _____

INDEPENDENT PRACTICE ACTIVITY SHEET

Directions: Match the percents to the correct decimal.

A. 59%	a] .63
B. 86%	b] .01
C. 1%	c] .05
D. 32%	d] .59
E. 63%	e] .32
F. 5%	f] .86
G. 76%	g] .76

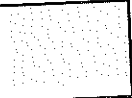


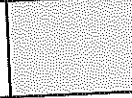
Directions: Change to decimals.

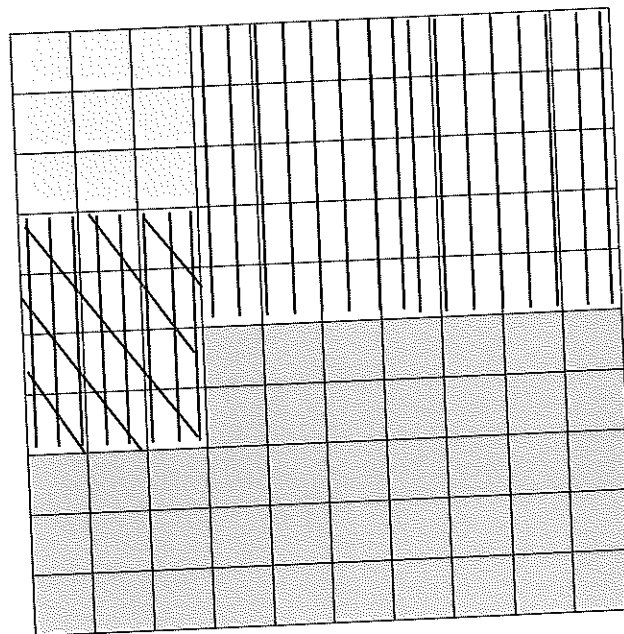
1. 41% _____
 2. 126% _____
 3. 16% _____
 4. 32% _____
-

Name: _____

Date _____

Guided Practice Worksheet

Office	
Closet	
Classroom	
Cptr. Station	



Ratio	Fraction	Decimal	Percent
_____ out of 100			
_____ out of 100			
_____ out of 100			
_____ out of 100			

Name: _____

Date _____

SKILL: Convert a decimal to a percent through fractions

Ratio	Fraction	Decimal	Percent
19 to 100			
	$\frac{74}{100}$		
		0.3	
			9%

Name: _____

Date _____

SKILL: Convert a decimal to a percent through fractions

Fraction	Decimal	Percent
$\frac{9}{25}$		
$\frac{11}{20}$		
$\frac{3}{8}$		
$\frac{5}{6}$		
$\frac{2}{5}$		

Name: _____

Date _____

SKILL: Find the percent of a number

Directions: Find the percent of each number using the method stated.

1) By decimal: 5% of 80 = _____

2) By fraction: 75% of 260 = _____

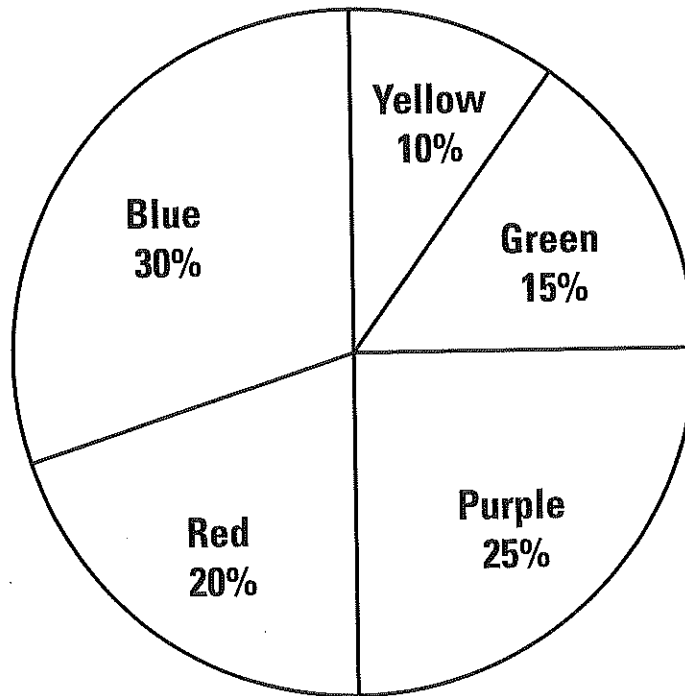
3) By decimal: 68% of 75 = _____

4) By fraction: 2% of 50 = _____

Name: _____

Date _____

The circle graph shows the favorite colors of 400 school students.



Which color choice had the most votes? _____

Which color choice had the least votes? _____

How many students chose purple? _____

How many students chose yellow? _____

How many more students chose red than green? _____

Name: _____

Date _____

SKILL: Find the percent of a number

1) 75% of what number is 30?

2) 60% of what number is 24?

3) 80% of what number is 24?

4) 12% of what number is 63?

Name: _____

Date _____

SKILL: Find the percent of a number

1) What percent of 120 is 36?

2) What percent of 500 is 75?

3) What percent of 350 is 91?

Name: _____

Date _____

SKILL: Find the percent of a number, including money notation

1) 50% of 12 is _____

2) What is 25% of 120?

3) Find 20% of 865.

Name: _____

Date _____

SKILL: Find the percent of a number, including money notation

1) Regular Price: \$12.20

Discount Price: \$ 3.50

Discount Percent: _____

2) Regular Price: \$274

Discount Price: \$ 11

Discount Percent: _____

3) Regular Price: \$800

Discount Price: \$ 68

Discount Percent: _____

Name: _____

Date _____

SKILL: Identify proportions in a ratio

Directions: Set up a proportion to solve each problem.

ratiogiven informationmissing information

1) \$75 for 5 hours

25 hours

amount of money?

2) 15 oranges for \$1.50

75 oranges

amount of money?

Name: _____

Date _____

SKILL: Subtract positive and negative integers

Use the plus negative trick and the double negative trick and the rules for addition of integers to solve these problems.

$$-7 - 2 = \underline{\hspace{2cm}}$$

$$6 - (-3) = \underline{\hspace{2cm}}$$

$$-3 - (-5) = \underline{\hspace{2cm}}$$

$$24 - 36 = \underline{\hspace{2cm}}$$

$$-13 - (-2) = \underline{\hspace{2cm}}$$

Name: _____

Date _____

SKILL: Identify and use exponents

Solve for the products:

1] Six to the second power = _____

2] $8^2 =$ _____

3] 4 cubed = _____

4] $2^4 =$ _____

5] Which is larger 3^3 or 3×8 ? _____

Name: _____

Date _____

SKILL: Calculate the range, mean, mode, and median for a set of numbers

1)	10, 6, 8, 9, 2	Mean =
		Mode =
		Median =
		Range =

2)	53, 65, 42, 53, 52	Mean =
		Mode =
		Median =
		Range =

3)	5, 9, 9, 17, 10	Mean =
		Mode =
		Median =
		Range =

Date _____

1. A polygon has 5 sides. The sides measure: 3 in., 4 in., 10 in., 7 in., and 5 in. What is the perimeter?

1. A polygon has 5 sides. The sides measure: 3 in., 4 in., 10 in., 7 in., and 5 in. What is the perimeter?
2. Find the perimeter of a square with sides that measure 20 inches each.
3. Find the perimeter of a rectangle with a width of 2 cm and a length of 8 cm.
4. A triangle has two sides that measure 4 m each and a base that measures 6 m. What is the perimeter?

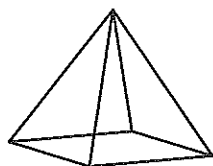
Name: _____

Date _____

SKILL: Identify spatial figures: rectangular prism, triangular prism, triangular pyramid, and square pyramid

Directions: Name each shape and give the number of faces, edges, and vertices for each shape.

1.

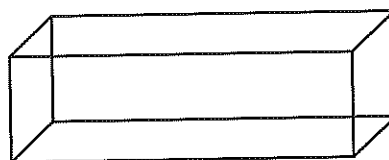


Faces _____

Edges _____

Vertices _____

2.

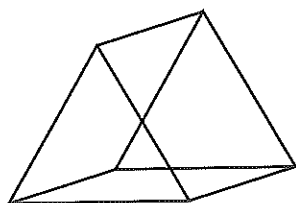


Faces _____

Edges _____

Vertices _____

3.

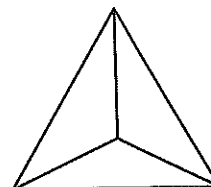


Faces _____

Edges _____

Vertices _____

4.



Faces _____

Edges _____

Vertices _____

Name: _____

Date _____

SKILL: Calculate the area of rectangles, triangles, and irregular shapes

Directions: Find the area of each shape below.

1.

15 m

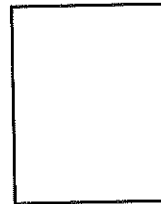
5 m



2.

17 in.

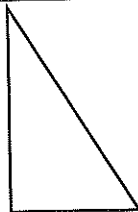
21 in



3.

30 cm

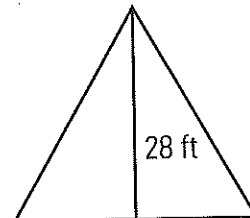
12 m



4.

28 ft

15 ft



Name: _____

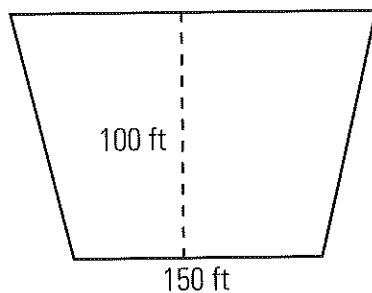
Date _____

SKILL: Calculate the area of rectangles, triangles, and irregular shapes

1. Find the area of the parallelogram: base: 12 inches, height: 9 inches

2. Find the area of the trapezoid: base₁: 16 inches, base₂: 4 inches, height: 12 inches

3. The government building's floor plan is below. How many square feet are in the building?



Name: _____

Date _____

SKILL: Calculate the volume of rectangular solids

1) Find the volume of a solid 5 meters long, 3 meters wide and 5 meters high.

2) Find the volume of a solid 10 feet long, 2 feet wide and 3 feet high.

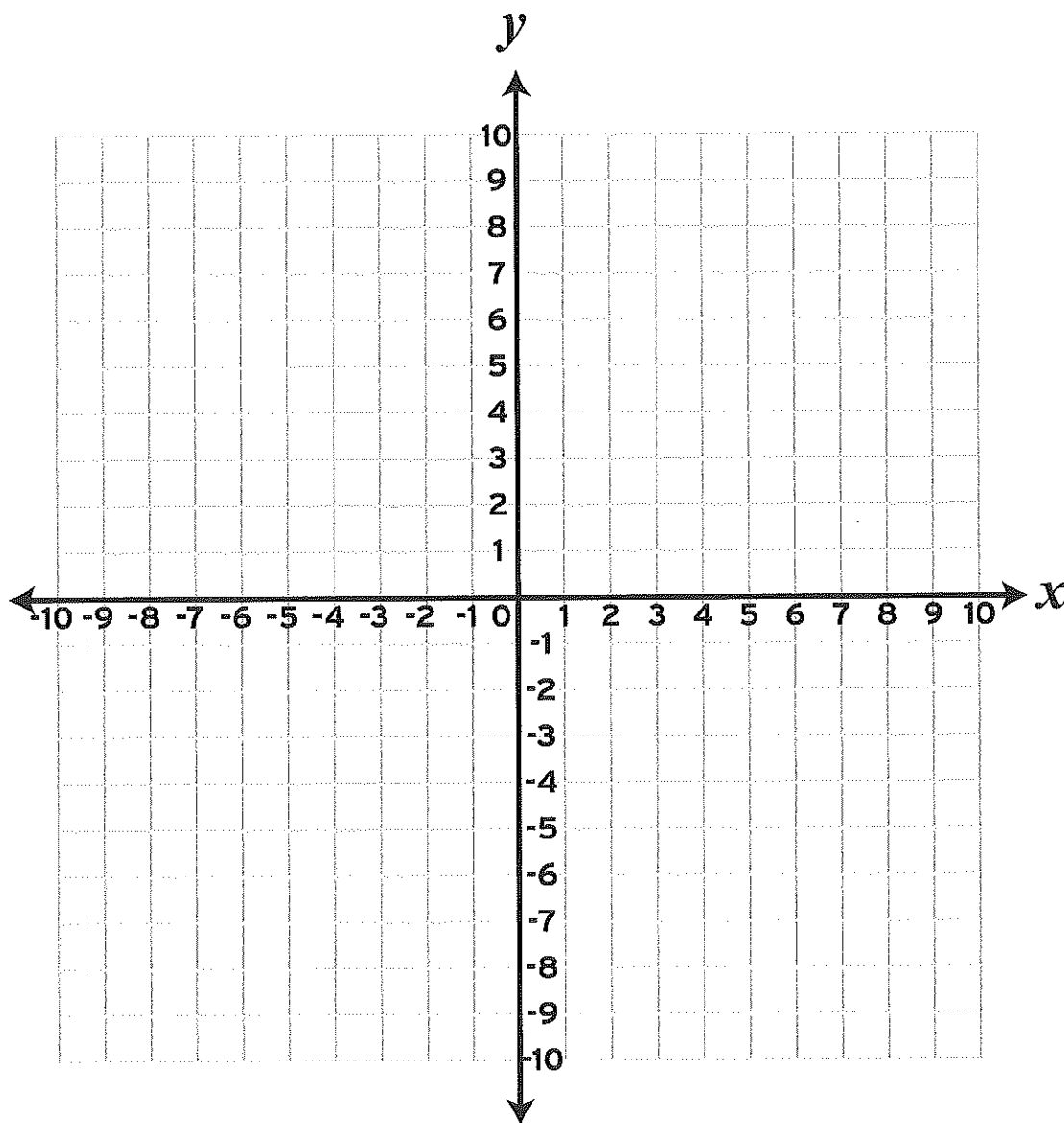
3) Find the volume of a solid 12.5 centimeters long, 1.2 centimeters wide and 1.2 centimeters high.

Name: _____

Date: _____

SKILL: Understand the four coordinate graph

Directions: Plot the following points in the graph below.

1. $(-1, 10)$ 2. $(2, -9)$ 3. $(3, 8)$ 4. $(-4, 7)$ 5. $(-5, -6)$ 

Name: _____

Date _____

SKILL: Understand the four coordinate graph

Directions: Give the coordinates of each point.

1) A _____

2) B _____

3) C _____

4) D _____

