FOURTH GRADE

MATH SUMMER REVIEW

This packet belongs to: _____

Name _____ Date _____

Find the Value

1. Find the value of the underlined digit in the following number.

   426,105

   _____

2. Circle the number that shows 5 with the **greatest** value.

   23,456 256,367

   500,342 45,237

3. How many times **less** is the 6 in the tens place than the 6 in the thousands place?

   _____

   26,460

4. Circle the digit in the thousands place in the following number.

   103,594

5. Find the value of the underlined digit in the following number.

   10,478

   _____

6. Circle the number that shows 7 with the **least** value.

   70,593 39,207

   47,406 63,735

7. How many times **greater** is the 2 in the thousands place than the 2 in the hundreds place?

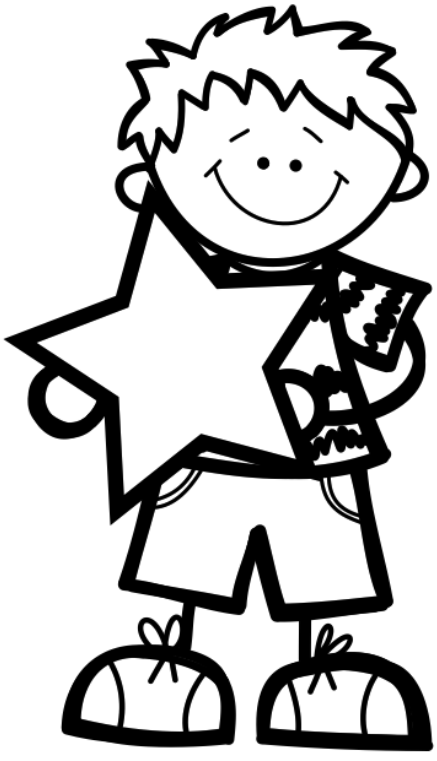
   _____

   402,255

8. Circle the number that shows 4 with the **greatest** value.

   18,642 304,562

   743,620 98,104



9. Find the value of the underlined digit in the following number.

   739,485

   _____

10. Circle the digit in the ten thousands place in the following number.

    56,403

Name _____ Date _____

Writing Whole Numbers

1. Write the following number in standard form.

two thousand, three hundred ninety-one

_____

2. Write the following number in word form.

63,281

_____

_____

3. Write the following number in expanded form.

52,473

_____

4. What number does the following represent?

400,000 + 20,000 + 6,000 + 800 + 5

5. What number does the following represent?

700,000 + 10,000 + 5,000 + 300 + 40 + 4

6. Circle the number with a digit in the ten thousands place that is less than 5.

77,872 152,326 220,154 89,392

7. Write a number with a digit in the **thousands** place <u>less than 4</u> and a digit in the **hundred thousands** place <u>greater than 5</u>.

_____

8. Write a number with a digit in the **hundreds** place <u>greater than 6</u> and a digit in the **ten thousands** place <u>less than 3</u>.

_____

Name _____ Date _____

Rounding Numbers

1. Round the following number to the nearest 10.

3,467

_____

2. Round the following number to the nearest 100.

52,329

_____

3. Round the following number to the nearest 1,000.

64,580

_____

4. Round the following number to the nearest 10,000.

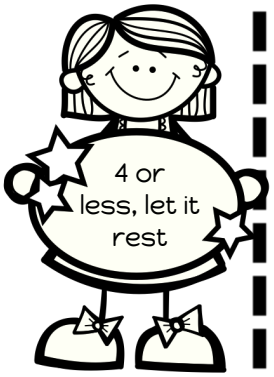
572,613

_____

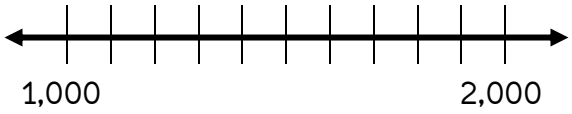
5. Round the following number to the nearest 100,000.

132,045

_____



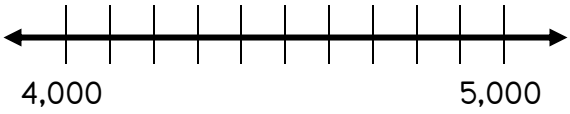
6. Place 1,400 on the number line below.



7. Round 1,400 to the nearest thousand.

_____

8. Place 4,500 on the number line below.



9. Round 4,500 to the nearest thousand.

_____

10. Round the following number to the nearest 10, 100, 1,000 and 10,000.

24,675

Nearest 10 _____ Nearest 100 _____ Nearest 1,000 _____ Nearest 10,000 _____

Name _____ Date _____

add & subtract whole numbers

1. Find the sum.

$$\begin{array}{r} 2{,}465 \\ +\ 7{,}386 \\ \hline \end{array}$$

2. Find the difference.

$$\begin{array}{r} 5{,}305 \\ -\ 2{,}622 \\ \hline \end{array}$$

3. Find the missing number.

$$\begin{array}{r} 4{,}518 \\ +\ \quad \\ \hline 5{,}166 \end{array}$$

4. Find the missing number.

$$\begin{array}{r} 6{,}241 \\ -\ \quad \\ \hline 4{,}881 \end{array}$$

5. Find the sum.

$$\begin{array}{r} 2{,}295 \\ +\ 3{,}874 \\ \hline \end{array}$$

6. Find the difference.

$$\begin{array}{r} 8{,}006 \\ -\ 2{,}380 \\ \hline \end{array}$$

7. The chart shows the weight of animals at the zoo. Which two animals have a <u>difference</u> in weight that is greater than 1,000 pounds?

<u>Animal</u>	<u>Weight</u>
Giraffe	1,800 lbs.
Polar Bear	2,200 lbs.
Tiger	1,000 lbs.

_____

8. A school cafeteria purchased 256 hotdogs, 332 apples, and 154 cookies. How many items did they purchase <u>in all</u>?

_____

9. Katie solve the problem below, but the answer is incorrect. What did she do wrong?

$$\begin{array}{r} 8{,}364 \\ +\ 5{,}892 \\ \hline 13{,}156 \end{array}$$

Name _____ Date _____

Multiplying whole numbers

1. Find the product.

$$\begin{array}{r} 37 \\ \times\ 15 \\ \hline \end{array}$$

2. Solve the following problem using partial products.

×	30	6
5		

5 × 36 = _____

3. What equation is shown by the following breaking apart method?

100 × 2 = 200
20 × 2 = 40
2 × 2 = 4

Use this space to show your work. Number your problems & circle your answer.

4. Max bought 5 boxes of cleaning wipes for his classroom. Each box cost $2.50. How much did he spend?

_____

5. Julie has 20 times as many bouncy balls as her brother. Her brother has 4. How many bouncy balls does Julie have?

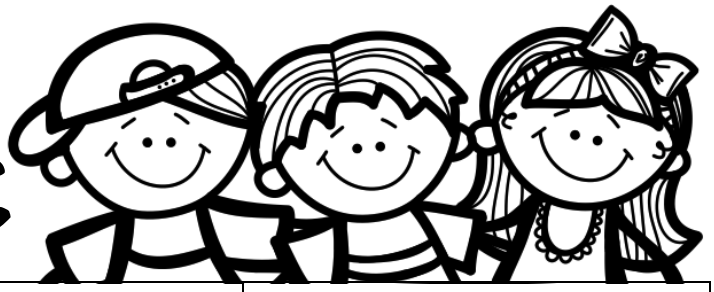
6. A theater has 60 rows of seats. Each row has 42 seats. How many seats are in the theater?

_____

Use this space to show your work. Number your problems & circle your answer.

Name _____ Date _____

DIVIDING WHOLE NUMBERS



1. Find the quotient. Circle your answer. 315 ÷ 9	2. Find the quotient. Circle your answer. 2,225 ÷ 5	3. Find the quotient. Circle your answer. 748 ÷ 7
4. Find the quotient. Circle your answer. 5,887 ÷ 3	5. Use multiplication to check the answer. Decide if it is **correct** or **incorrect**. 547 ÷ 6 = 91 r 1 ___Correct ___Incorrect	6. Use multiplication to check the answer. Decide if it is **correct** or **incorrect**. 763 ÷ 4 = 190 r 2 ___Correct ___Incorrect
7. The circus sold 1,624 tickets for their upcoming event. They divided the arena into 8 equal sections. How many people were seated in each section? _____	8. Allie has 123 oranges to put in 11 baskets. If she evenly divides the oranges among the 11 baskets, how many oranges will be left over? _____	9. A summer camp needed 1,148 popsicles. Boxes of popsicles were sold with 8 in each. How many boxes did they have to buy to have enough popsicles? How many were left over? _____

Name _____ Date _____

Multiplication Equations

1. Jake is 9 years old. His dad is 4 times older. How old is Jake's dad?

_____

2. Laci made 6 quarts of lemonade. Sara made 3 times as many quarts as Laci. How many quarts did Sara make?

_____

3. Chad ran 5 miles. Sam ran 3 times as many miles as Chad. How many miles did Sam run?

_____

4. Write a multiplication equation to match the statement.

18 pounds is 9 times as heavy as 2

_____

5. Write a multiplication equation to match the statement.

56 apples is 8 times as many as 7

_____

6. Write a multiplication equation to match the statement.

22 days is 11 times longer than 2 days

_____

The chart below shows how much food farm animals eat each day. Fill in the blanks to make the statements true.

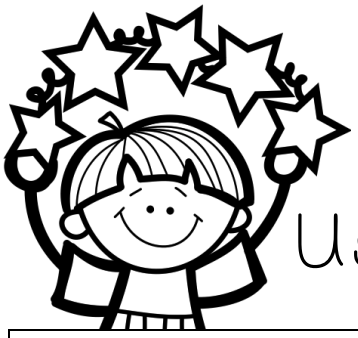
animal	horse	cow	goat	chicken
pounds of food	20 lbs.	16 lbs.	8 lbs.	2 lbs.

7. A horse eats _____ times as much as a chicken.

8. A cow eats _____ times as much as goat.

9. A goat eats _____ times as much as a chicken.

Name _____ Date _____

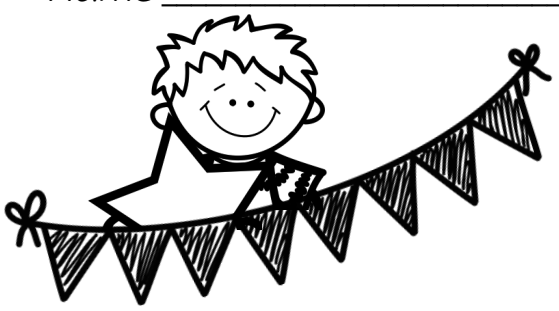


Comparisons

Using Multiplication & Division

1. There were 40 adults in line at a movie theater. That is 5 times the number of children in line. How many children were in line?	2. This month Tania saved 6 times as much money as last month. Last month she saved $24. How much did Tania save this month?	3. Jessie has 25 small boxes to put his rock collection in. He sorts 20 rocks into each box. How many rocks does he have in his collection?
4. A store has 152 bottles of water. This is 2 times the number of sodas they have. How many sodas does the store have?	5. There are 60 minutes in 1 hour. How many minutes are there in 48 hours?	6. Tony has 4 balloons. Max has 3 times as many as Tony, and Brian has half as many as Max. How many balloons do Max and Tony have?
7. At a carnival they sold 64 hotdogs on Friday. They sold 3 times as many hotdogs on Saturday. How many hotdogs did they sale on Saturday?	8. A pet store sold 21 kittens and 7 birds. How many times more kittens did they sale than birds?	9. A touring bus can hold 64 people. If there are 3 touring buses, how many people can ride?
10. A water park sold 12 adult tickets and 60 children's tickets. How many times more children's tickets were sold than adult tickets?	11. Trevor mows 5 times as many lawns in the summer as he does in the fall. If he mows 20 lawns in the summer, how many does he mow in the fall?	12. A moving truck is 2 times as heavy as a car. A car weighs 2,500 pounds. How much does the moving truck weigh?

Name _____ Date _____



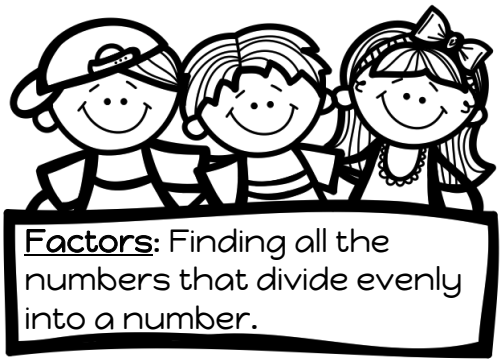
MULTI-STEP Word Problems

1. Sara had 118 pieces of candy. She kept 10 for herself and share the rest evenly among her 12 friends. How many pieces of candy did each friend get?	2. Cassie's mom bought 12 boxes of Kool-Aid for a party. Seven of the boxes had 9 packets of Kool-Aid and the other 5 boxes had 10 packets. How many packets of Kool-Aid did Cassie's mom buy?	3. John had $84 to spend on back to school clothes. He bought a shirt for $18, a pair of shoes for $32, and a pair of jeans for $25. How much money did he have left?
4. Mrs. Smith made 4 trays of cupcakes with 48 on each tray. She divided the cupcakes evenly into 12 containers. How many cupcakes were in each container?	5. Jenny went to the market. She spent $25 dollars on fruit, $18 on vegetables, and $10 on flowers. After her purchases, she had $102 left. How much money did she have before she went to the market?	6. Sam's favorite movies are on sale for $5 each. He has $32 in his wallet, but needs to save $6 for lunch. How many movies can he buy?
7. Mr. Mash had $58 dollars to give to his children. He kept $4 and then divided the rest evenly between his 3 children. How much money did each child get?	8. Matt charged $10 to wash cars. He earned $120 on Friday. On Saturday he earned $20 more than he did on Friday. How many cars did Matt wash on Friday and Saturday?	9. On a Friday afternoon, an ice cream shop sold 24 strawberry cones, 18 chocolate cones, and 12 vanilla cones. If the 2 workers made an equal number of ice cream cones, how many cones did each worker make?

Name _____ Date _____

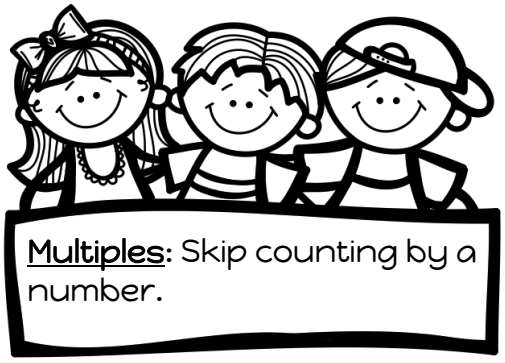
Factors and Multiples

1. What are the first 5 multiples of 3?	2. What are the first 5 multiples of 9?	3. What are the first 5 multiples of 4?
4. List the factors of 12.	5. List the factors of 21.	6. List the factors of 36.
7. 5, 10, 15, 20... is an example of skip counting, therefore these numbers are called _____ of 5.	8. 7 divides evenly into 14, therefore 7 is a _____ of 14.	9. True or False? 1, 2, 3, 6, 9 and 18 are all factors of 18.
10. List the first 5 multiples of 3 and 6. Circle the least common multiple. 3: _____ 6: _____	11. List the first 5 multiples of 4 and 5. Circle the least common multiple. 4: _____ 5: _____	12. List the first 5 multiples of 8 and 12. Circle the least common multiple. 8: _____ 12: _____



Factors: Finding all the numbers that divide evenly into a number.

Know the difference!



Multiples: Skip counting by a number.

Name _____ Date _____

Prime and Composite

A **PRIME** number is a number that has **ONLY 2** factors. 1 and itself.

vs.

A **COMPOSITE** number is a number that has more than 2 factors.

1.

Number	5
Factors	
Prime or Composite?	

2.

Number	9
Factors	
Prime or Composite?	

3.

Number	12
Factors	
Prime or Composite?	

4. Write all of the multiplication facts for the number. Is it prime or composite?

19

5. Write all of the multiplication facts for the number. Is it prime or composite?

24

6. Write all of the multiplication facts for the number. Is it prime or composite?

36

7. Write all of the multiplication facts for the number. Is it prime or composite?

3

Name _____ Date _____

FIND THE pattern

1. If the number pattern continued, what would be the next number in the sequence?

   3,000, 2,950, 2,900, 2,850

   _____

2. What are the missing two numbers in this pattern?

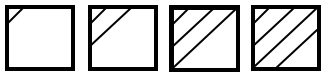
   ___, ___, 32, 39, 46, 53, 60

3. If the number pattern continued, what would be the 7th number in the sequence?

   105, 110, 108, 113, 111

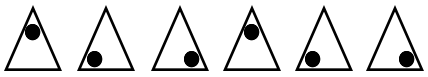
   _____

4. If the shape pattern continued, what would be the next shape in the sequence?



   _____

5. If the shape pattern continued, what would be the 8th shape in the sequence?



   _____

6. If the shape pattern continued, what would be the 7th shape in the sequence?

   _____

7. Start at 48 and create a pattern with the rule add 3. What would be the 5th number in the pattern?

   48 ___ ___ ___ ___

8. Start at 14 and create a pattern with the rule add 4, subtract 2. What would be the 6th number in the pattern?

   14 ___ ___ ___ ___ ___

9. Start at 26 and create a pattern with the rule subtract 6, add 3. What would be the 6th number in the pattern?

   26 ___ ___ ___ ___ ___

10. A number pattern follows this sequence. **Add 4, subtract 5, multiply by 3** and repeat. Use this pattern to fill in the blanks below.

    6 ___ ___ ___ ___ ___

11. A number pattern follows this sequence. **Add 6, subtract 3, multiply by 5** and repeat. Use this pattern to fill in the blanks below.

    3 ___ ___ ___ ___ ___

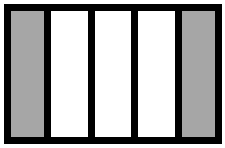
12. A number pattern follows this sequence. **Add 5, subtract 2, multiply by 4** and repeat. Use this pattern to fill in the blanks below.

    2 ___ ___ ___ ___ ___

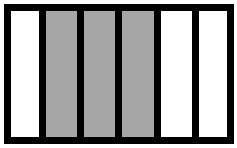
Name _____ Date _____

Equivalent fractions

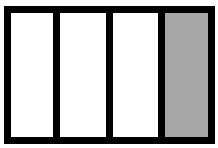
1. Identify the fraction shown in the model. Then multiply the numerator and denominator by 2 to find an equivalent fraction.

___ = ___ 

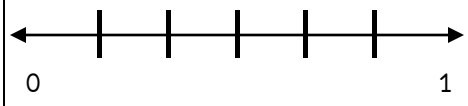
2. Identify the fraction shown in the model. Then divide the numerator and denominator by 3 to find an equivalent fraction.

___ = ___ 

3. Identify the fraction shown in the model. Then multiply or divide to find an equivalent fraction.

___ = ___ 

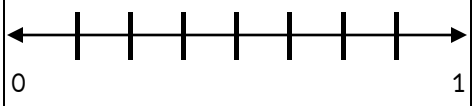
4. Place the fraction $\frac{2}{6}$ on the number line below.



Now write an equivalent fraction.

$\frac{2}{6} = \frac{\quad}{\quad}$

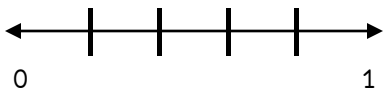
5. Place the fraction $\frac{4}{8}$ on the number line below.



Now write an equivalent fraction.

$\frac{4}{8} = \frac{\quad}{\quad}$

6. Place the fraction $\frac{3}{5}$ on the number line below.



Now write an equivalent fraction.

$\frac{3}{5} = \frac{\quad}{\quad}$

7. Find the missing number in the equivalent fractions below.

$\frac{4}{16} = \frac{1}{\quad}$

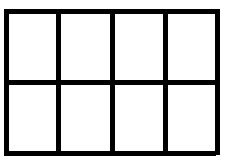
8. Find the missing number in the equivalent fractions below.

$\frac{2}{3} = \frac{4}{\quad}$

9. Find the missing number in the equivalent fractions below.

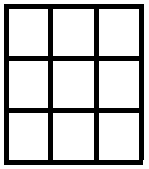
$\frac{4}{12} = \frac{1}{\quad}$

10. Color $\frac{3}{4}$ of the shape below. Then write an equivalent fraction.



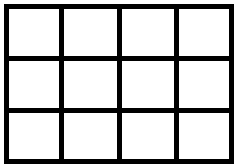
$\frac{3}{4} = \frac{\quad}{8}$

11. Color $\frac{2}{3}$ of the shape below. Then write an equivalent fraction.



$\frac{2}{3} = \frac{\quad}{6}$

12. Color $\frac{1}{4}$ of the shape below. Then write an equivalent fraction.

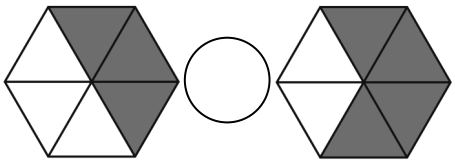


$\frac{1}{4} = \frac{\quad}{12}$

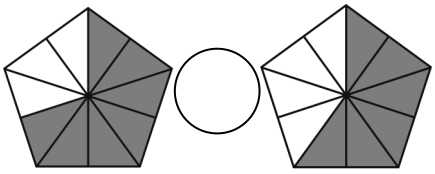
Name _____ Date _____

Comparing fractions

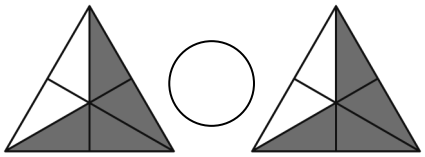
1. Fill in the circle with:
<, > or =



2. Fill in the circle with:
<, > or =



3. Fill in the circle with:
<, > or =



4. Fill in the circle with:
<, > or =

$\frac{1}{2}$ ◯ $\frac{2}{3}$

5. Fill in the circle with:
<, > or =

$\frac{6}{8}$ ◯ $\frac{3}{4}$

6. Fill in the circle with:
<, > or =

$\frac{4}{5}$ ◯ $\frac{4}{6}$

7. Circle the largest fraction.

$\frac{1}{8}$ $\frac{3}{4}$ $\frac{2}{6}$

8. Circle the largest fraction.

$\frac{4}{5}$ $\frac{1}{2}$ $\frac{2}{3}$

9. Circle the largest fraction.

$\frac{3}{6}$ $\frac{5}{8}$ $\frac{1}{4}$

10. Write **TRUE** or **FALSE** beside each comparison below.

$\frac{3}{10} > \frac{3}{4}$ _____

$\frac{4}{6} = \frac{2}{3}$ _____

$\frac{5}{12} < \frac{6}{10}$ _____

11. Write **TRUE** or **FALSE** beside each comparison below.

$\frac{4}{8} = \frac{2}{4}$ _____

$\frac{5}{8} < \frac{1}{2}$ _____

$\frac{8}{10} > \frac{5}{6}$ _____

12. Write **TRUE** or **FALSE** beside each comparison below.

$\frac{3}{8} > \frac{4}{10}$ _____

$\frac{2}{3} < \frac{1}{5}$ _____

$\frac{6}{8} = \frac{3}{4}$ _____

Name _____ Date _____

adding & subtracting fractions

1. Find the difference. Show your answer in simplest form.

$\frac{7}{8} - \frac{3}{8} =$ _____

2. Find the difference. Show your answer in simplest form.

$\frac{8}{10} - \frac{2}{10} =$ _____

3. Find the difference. Show your answer in simplest form.

$\frac{6}{12} - \frac{4}{12} =$ _____

4. Find the sum. Show your answer in simplest form.

$\frac{2}{3} + \frac{1}{3} =$ _____

5. Find the sum. Show your answer in simplest form.

$\frac{3}{6} + \frac{1}{6} =$ _____

6. Find the sum. Show your answer in simplest form.

$\frac{5}{14} + \frac{3}{14} =$ _____

7. Decompose the fraction below.

$\frac{3}{8}$

___ + ___ + ___ = $\frac{3}{8}$

8. Decompose the fraction below.

$\frac{4}{5}$

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

9. Decompose the fraction below.

$\frac{2}{3}$

___ + ___ = $\frac{2}{3}$

10. Write the improper fraction as a mixed number.

$\frac{9}{4}$

11. Write the improper fraction as a mixed number.

$\frac{7}{5}$

12. Write the mixed number as an improper fraction.

$5\frac{1}{3}$

13. Write the mixed number as an improper fraction.

$2\frac{4}{9}$

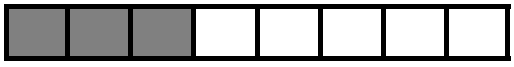
Name _____ Date _____

MULTIPLYING fractions

1. Circle the answer the correctly shows the area model below.

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

2. Circle the answer the correctly shows the area model below.



$1 \times \frac{1}{8}$ $3 \times \frac{8}{8}$ $3 \times \frac{1}{8}$ $1 \times \frac{3}{8}$

Solve the following problems. Show your answer in simplest form.

3. $3 \times \frac{1}{5} =$ _____

4. $2 \times \frac{2}{6} =$ _____

5. $6 \times \frac{1}{6} =$ _____

6. $3 \times \frac{2}{10} =$ _____

Change the mixed numbers to improper fractions.

7. $3\frac{2}{8} =$ _____

8. $4\frac{1}{10} =$ _____

9. $2\frac{4}{8} =$ _____

10. $5\frac{2}{9} =$ _____

11. A cake recipe calls for $\frac{3}{4}$ cup of flour. If Mrs. Smith made 4 cakes for the summer bake sale, how much flour did she use?

_____

12. Jake trains for an upcoming marathon with his dad. He runs $\frac{5}{6}$ of a mile each day. How many miles has he ran after 4 days?

_____

13. Debi needed $\frac{2}{3}$ cup of water for each flower. She had 8 flowers to water. How much water did she use?

_____

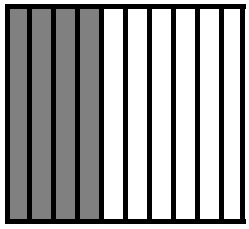
14. Amy and 7 of her friends each purchase $\frac{4}{5}$ pound of candy. How much candy did Amy and her friends purchase?

_____

Name _____ Date

Fraction Models

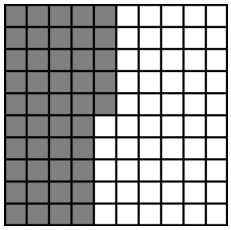
1. Write a decimal and fraction to represent the shaded part of the model below.



Decimal: _____

Fraction: _____

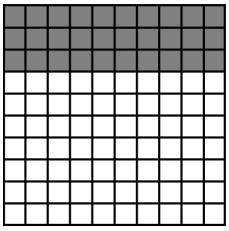
2. Write a decimal and fraction to represent the shaded part of the model below.



Decimal: _____

Fraction: _____

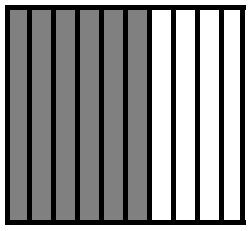
3. Write a decimal and fraction to represent the shaded part of the model below.



Decimal: _____

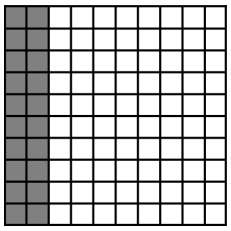
Fraction: _____

4. This model shows 6/10. If the model was divided into 100 equal parts. How many parts would be shaded?



_____

5. This model shows 20/100. If the model was divided into 10 equal parts. How many parts would be shaded?



_____

6. A paper clip weighs 3/100 of an ounce, a centimeter cube weighs 1/10 of an ounce, a magnet weights 8/10, and an eraser weighs 12/100 of an ounce?

Which weighs more?

_____

7. Find an equivalent fraction for 5/10 with a denominator of 100.

_____

8. Find an equivalent fraction for 70/100 with a denominator of 10.

_____

9. Find an equivalent fraction for 9/10 with a denominator of 100.

_____

Name _____ Date _____

FRACTIONS & decimals

1. Represent the following fraction as a decimal. $\frac{2}{10}$

_____

2. Represent the following fraction as a decimal. $\frac{8}{100}$

_____

3. Represent the following fraction as a decimal. $\frac{40}{100}$

_____

4. Represent the following decimal as a fraction.

0.5

_____

5. Represent the following decimal as a fraction.

0.22

_____

6. Represent the following decimal as a fraction.

0.73

_____

7. Represent the following decimal in word form.

0.8

_____

8. Represent the following decimal in word form.

0.30

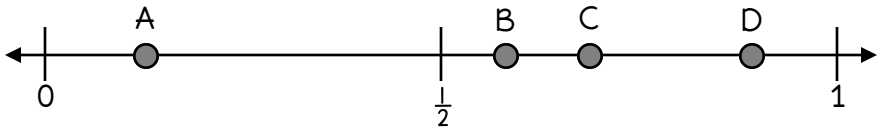
_____

9. Represent the following decimal in word form.

0.6

_____

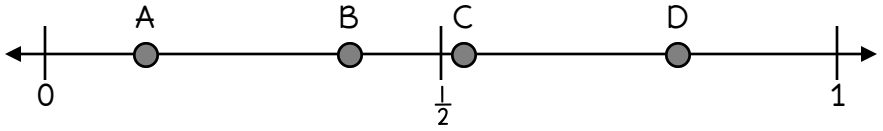
10. Circle the letter on the number line that best represents $\frac{86}{100}$.



11. Represent the following fraction in word form. $\frac{3}{10}$

_____

12. Circle the letter on the number line that best represents $\frac{4}{10}$.

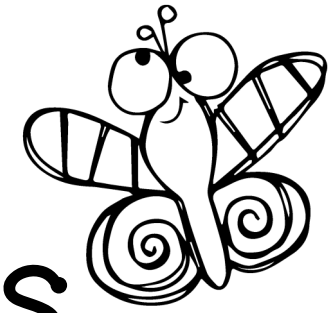


13. Represent the following fraction in word form. $\frac{52}{100}$

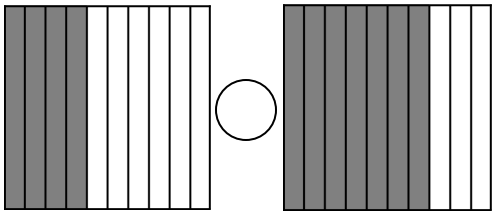
_____

Name _____ Date _____

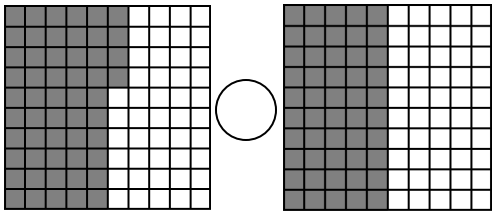
COMPARING Decimals



Write the decimal shown in each model below. Then, compare the models below using <, > or =.

1. 

_____ _____

2. 

_____ _____

3. Circle the expressions that show a correct comparison of decimals.

0.3 < 0.9

0.45 > 0.65

0.32 > 0.30

0.1 > 0.10

4. Compare the decimals below using <,> or =.

0.84 ◯ 0.80

0.4 ◯ 0.7

0.42 ◯ 0.42

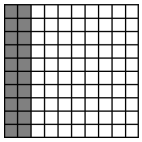
5. Compare the decimals below using <,> or =.

0.2 ◯ 0.20

0.64 ◯ 0.6

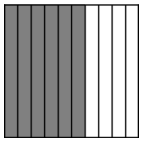
0.3 ◯ 0.32

6. A decimal is modeled by the shaded part on the grid below. Write a sentence correctly comparing this decimal to $\frac{2}{10}$.



_____

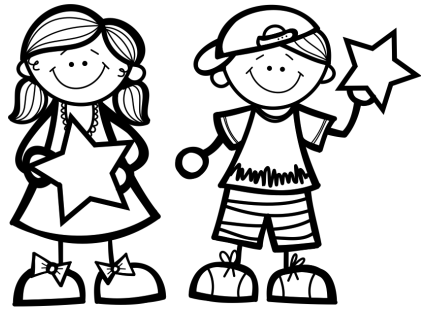
7. A decimal is modeled by the shaded part on the grid below. Write a sentence correctly comparing this decimal to $\frac{50}{100}$.



_____

Name _____ Date _____

Sizes of Units



1. Complete the table below.

yards		2		5
feet	3		12	

2. Complete the table below.

cups	2		6	
pints		2		4

3. Complete the table below.

pounds		2		4
ounces	16		48	

4. Complete the table below.

minutes	60		180	
hours		2		4

5. Complete the table below.

centimeters		300		900
meters	1		6	

6. Complete the table below.

kilometers	1		6	
meters		3,000		9,000

7. Compete the table below.

kilograms		4		9
grams	1,000		6,000	

8.

milliliters	1,000		5,000	
liters		3		8

9. A box containing 4 equally sized melons weighed 8 kilograms. What is the weight of each melon in grams?

_____

10. A 3 meter rope was cut into 6 equal lengths? How many centimeters long was each length of rope?

_____

11. A dairy cow makes 6,000 milliliters of milk per day. How many liters of milk does the cow make in 3 days?

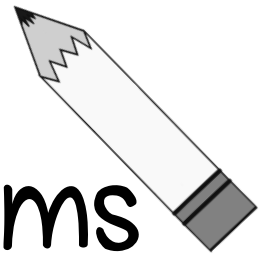
_____

12. Maci swam around the pool in 2 minutes. Jen swam around the pool in 160 seconds. How much faster was Maci's time than Jen's time?

_____

Name _____ Date _____

Measurement Word Problems

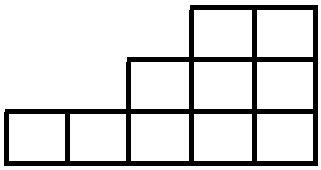


1. Jason earns $8 per hour mowing lawns. At the end of the week he had earned $224. How many hours did he mow lawns? _____	2. Molly was packing books in a box to send to a friend. The box cannot weigh more that 2kg. If each book has a mass of 200g, what is the maximum number of books she can send? _____	3. Andy's family drove 3 kilometers to the grocery store. How many meters did they drive? _____
4. Sara cut a $2\frac{1}{2}$ meter rope to hang a swing for her sister. How many centimeters is the rope? _____	5. Jeni put a cake in the oven at 2:30. If the cake takes $1\frac{1}{4}$ hours to bake, at what time should it be taken out of the oven? _____	6. Jessie has $18.25. He purchases 2 pieces of pizza and a soft drink? Each piece of pizza costs $3.00, and the soft drink cost $1.75. How much money does he have left? _____
7. Cassie made punch for a party. She used $2\frac{1}{4}$ liters of apple juice, $2\frac{3}{4}$ liters of orange juice, and $1\frac{1}{4}$ liters of cranberry juice. How many liters of juice did she use? _____	8. Ben has a bag of candy that weighs $2\frac{1}{2}$ pounds? He gives away $1\frac{1}{2}$ pounds to his sister. How many ounces of candy did he give away? _____	9. Mark cut a rope that measured 2 yards, Sam's rope was $6\frac{1}{2}$ feet, and Luke's rope was 74 inches long. Who had the longest rope? _____

Name _____ Date _____

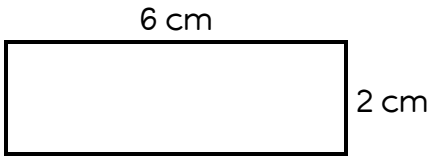
Area & Perimeter

1. Determine the square units of the figure below.



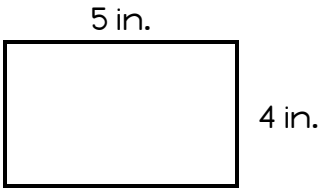
_____

2. Determine the area for the rectangle below.



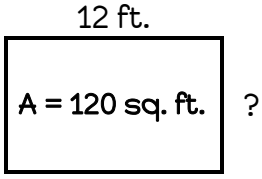
_____

3. Determine the perimeter for the rectangle below.

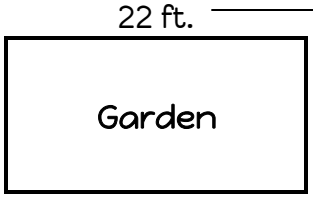


_____

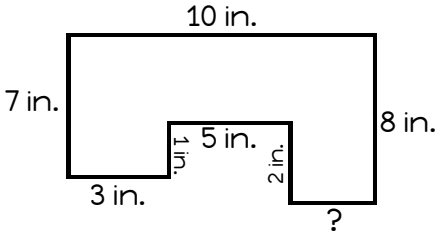
4. Mr. Michael has a dog pen with an area of 120 sq. feet. The length of his dog pen is 12 feet. What is its width? _____



5. Lani's mom wants to put a fence around her garden. How many feet of fencing will she need? _____



6. What is the perimeter of the figure below?



_____

7. A library added a new outdoor reading section that was 24 feet by 16 feet What was the area?

_____

8. An island in the Atlantic Ocean is 10 miles wide by 6 miles long. What is the perimeter of the island?

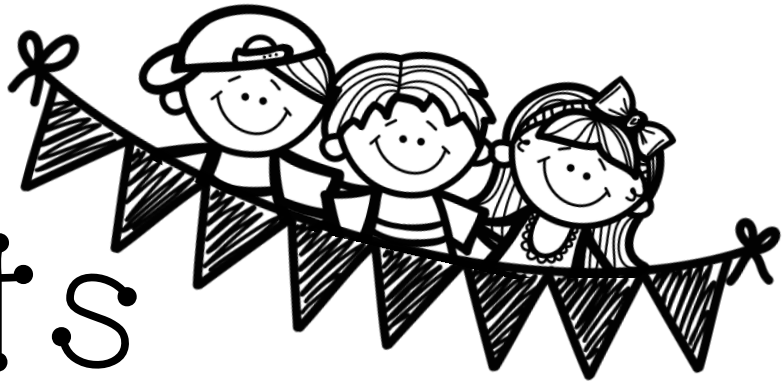
_____

9. A kiddie pool has the perimeter of 36 meters. The length of one side is 10 meters. What is the width of the pool?

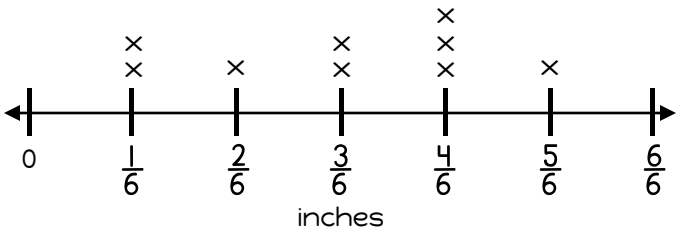
_____

Name _____ Date _____

LINE Plots

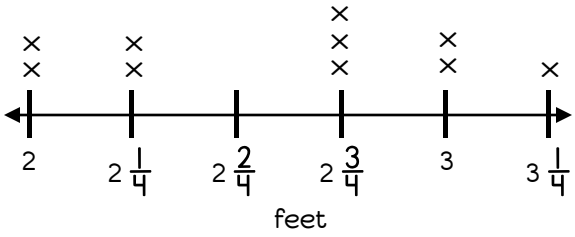


1. Students measured objects and displayed their data on the line plot below. If you put all of the objects together end-to-end, what would be the total length of the objects?



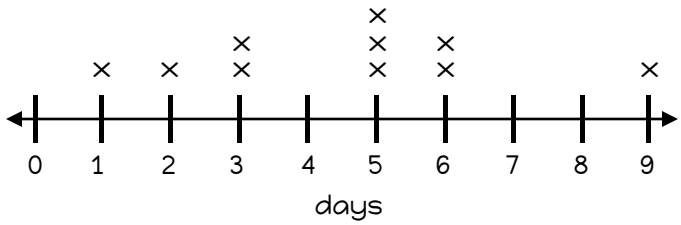
_____

2. Some students in Mrs. Ashley's class had a jumping contest to see who could jump the furthest. What is the difference between the longest and shortest jump.



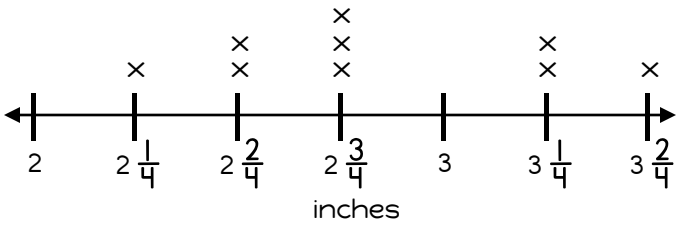
_____

3. How many miles did Max ride his bicycle on Day 5? Each x represents 3 miles.



_____

4. Nine friends measured their pinky size to the nearest $\frac{1}{4}$ inch. What is the combined length of the longest and shortest finger?



_____

5. Mr. Farley recorded his students test scores on a Science test. On a separate piece of paper, create a line plot displaying the data below.

# of students	2	3	4	5	3
score	76	82	88	94	100

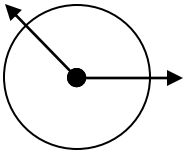
6. The table below shows the number of computers or laptops owned by ten different families. On a separate piece of paper, create a line plot displaying the data.

Number of Computers or Laptops									
3	2	4	1	5	3	1	2	3	3

Name _____ Date _____

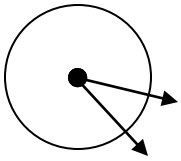
MEASURING Angles

1. Based on the circular angle below. What is the best measurement for the angle?



a. less than 90°
b. more than 90°
c. more than 180°
d. less than 60°

2. Based on the circular angle below. What is the best measurement for the angle?



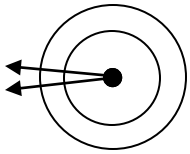
a. less than 90°
b. more than 90°
c. more than 70°
d. less than 120°

3. Calculate the value of Molly's name if an acute angle is worth 5 points, a right angle is worth 7 points, and an obtuse angle is worth 9 points.

MOLLY

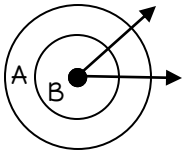
_____

4. If the angle below rotates 25° at each interval, how many times would it need to rotate to cover 180°?



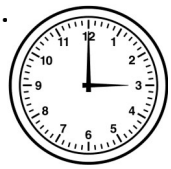
_____

5. If the angle moves 2° each second which circle would it take longer to travel around?



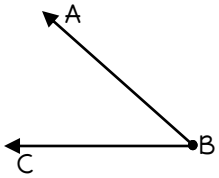
_____

6. The clock shows an angle made by the hour and minute hands. Describe the best measurement for the angle.



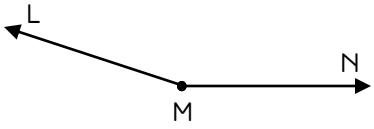
_____

7. Which choice best represents angle ∠ABC?



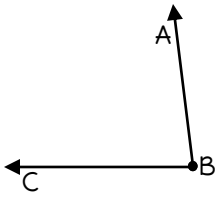
a. 90°
b. 130°
c. 45°
d. 110°

8. Which choice best represents angle ∠LMN?



a. 20°
b. 160°
c. 65°
d. 120°

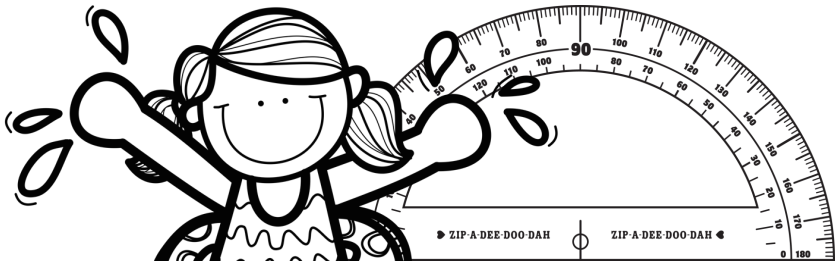
9. Which choice best represents angle ∠LMN?



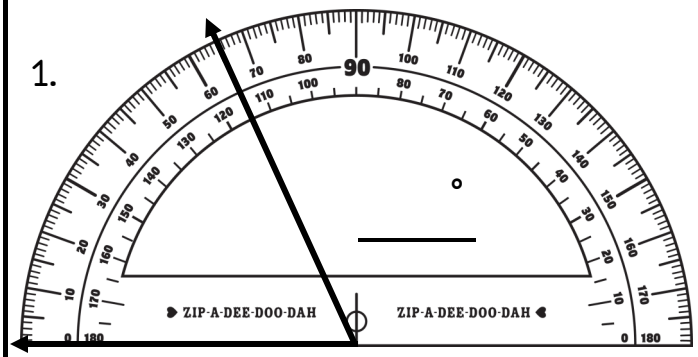
a. 45°
b. 105°
c. 90°
d. 85°

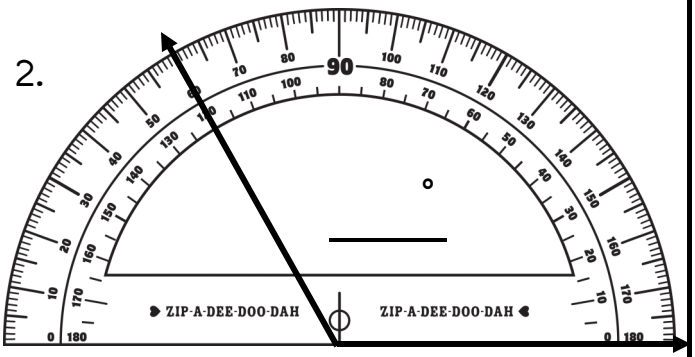
Name _____ Date _____

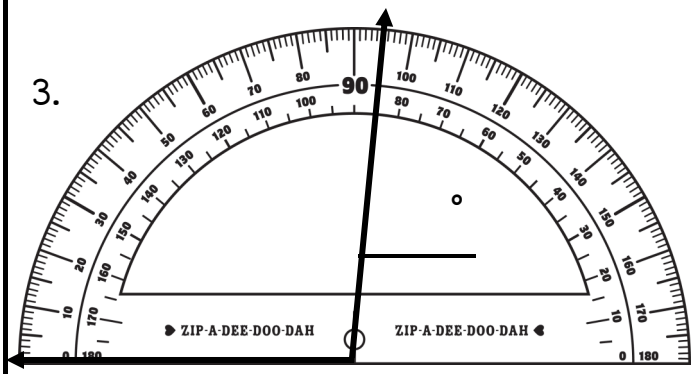
USING A Protractor

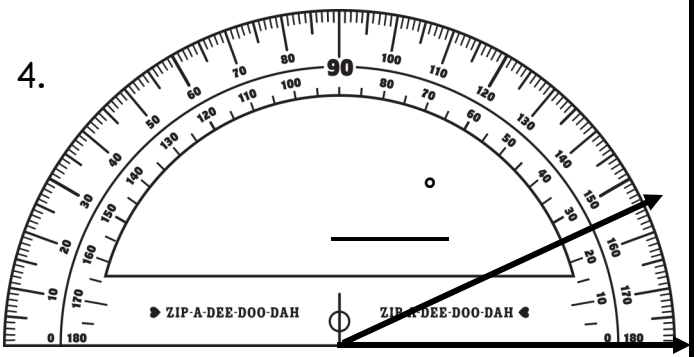


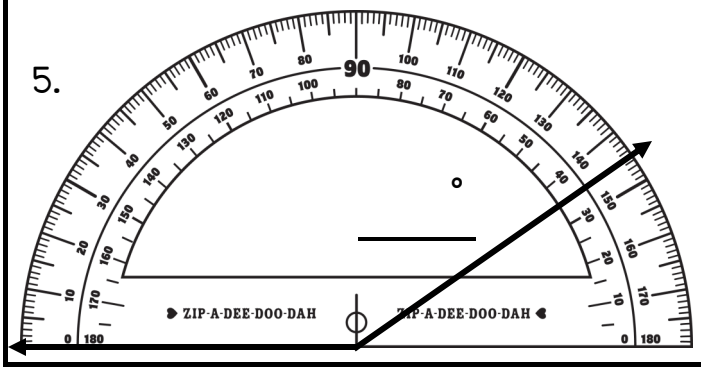
Use the protractors to measure the angles.

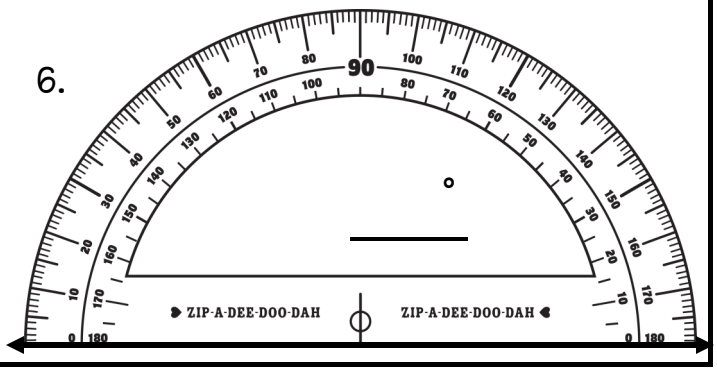
1. 

2. 

3. 

4. 

5. 

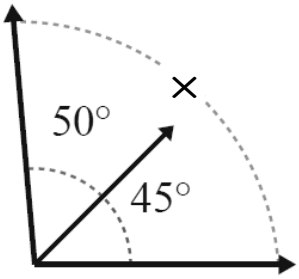
6. 

Name _____ Date _____

Missing Measurements

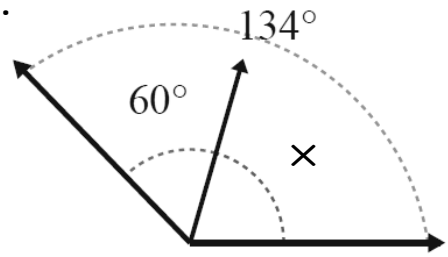
Determine the missing measurement in the angles below.

1.



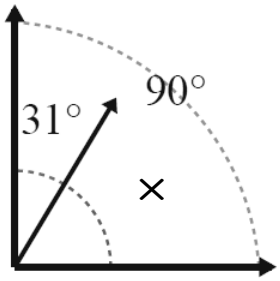
X = _____

2.



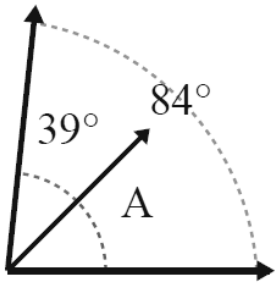
X = _____

3.



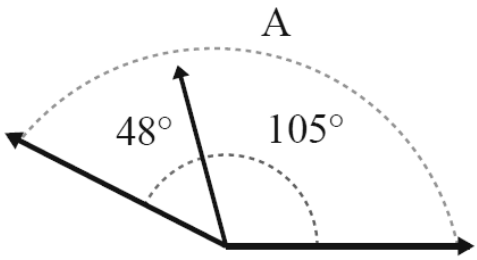
X = _____

4.



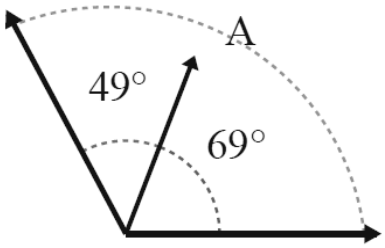
X = _____

5.



X = _____

6.



X = _____

7. Greg's ceiling fan rotates 30° and then stops. How many more times does it need to rotate to make a full rotation?

_____

8. Mr. Norris has a water sprinkler that covers 120° of his yard. How many times will he need to move the sprinkler in order to cover the full 360° of his yard?

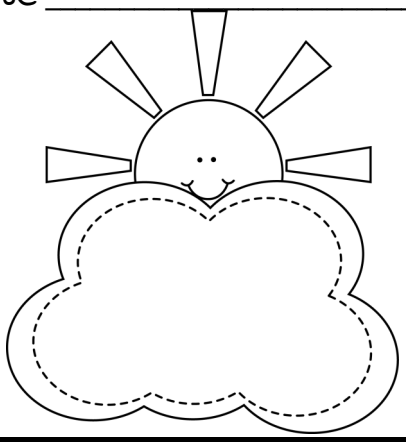
_____

9. I turned the dial on my stove 45° from the start position. If I continue to turn the dial, how many degrees further will I need to rotate it to return to the start position?

_____

Name _____ Date _____

LINES, Angles & Rays

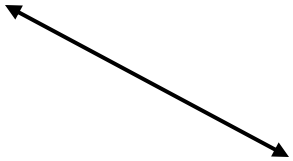


Use the words in the box to the label the figures correctly.

line	line segment	ray

1. _____

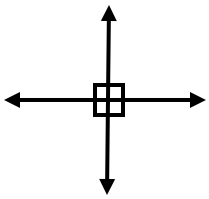
2. _____



3. _____

Use the words in the box to the label the figures correctly.

parallel lines	intersecting lines	perpendicular lines



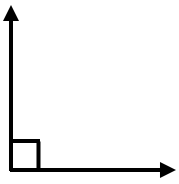
4. _____

5. _____

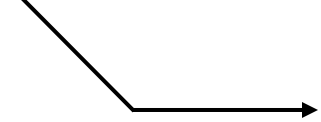
6. _____

Use the words in the box to the label the figures correctly.

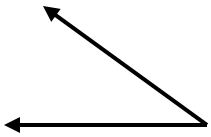
acute angle	obtuse angle	right angle



7. _____



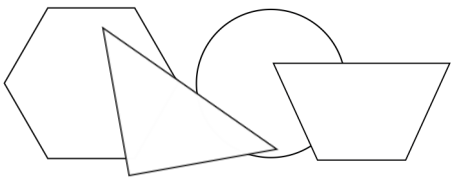
8. _____

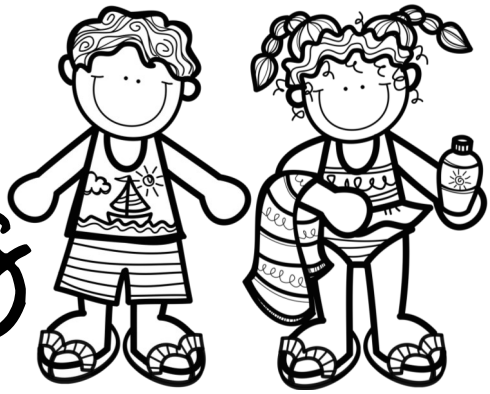


9. _____

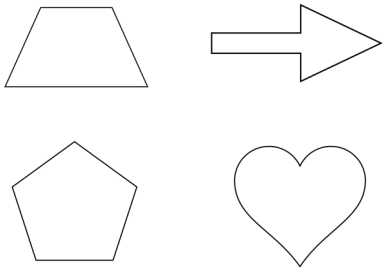
Name _____ Date _____

Classifying Shapes

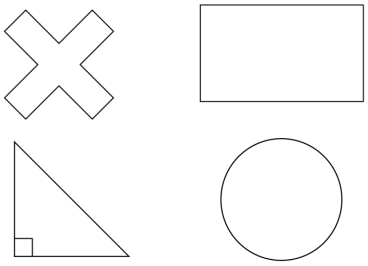




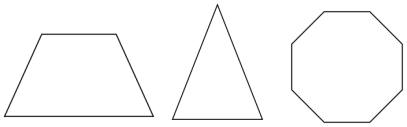
1. Circle the shapes that have parallel lines.



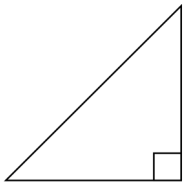
2. Circle the shapes that have perpendicular lines.



3. Circle the shape that has acute and obtuse angles.

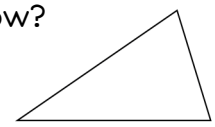


4. Identify the figure below.



_____

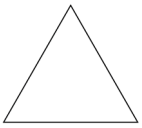
5. Annie says that that this figure is a scalene triangle. How does she know?



_____

_____

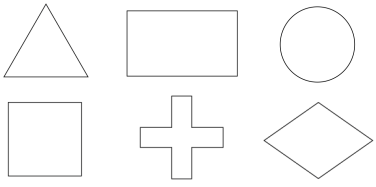
6. Nate says that that this figure is an equilateral triangle. How does he know?



_____

_____

7. Sam sorted the following figures. He put some of them in a group of quadrilaterals. Circle the figures he placed into this group?



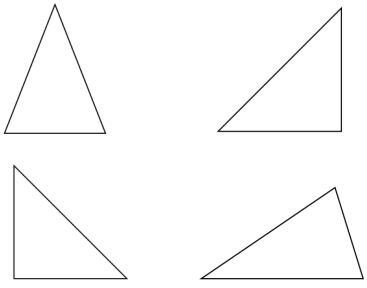
8. If Janie sorted figures into a group of 3 sides and 1 right angle? Which of the following shapes would belong in this group.

scalene triangle

right triangle

equilateral triangle

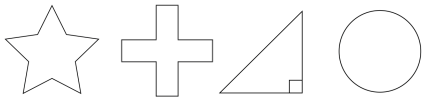
9. Circle the right triangles below.



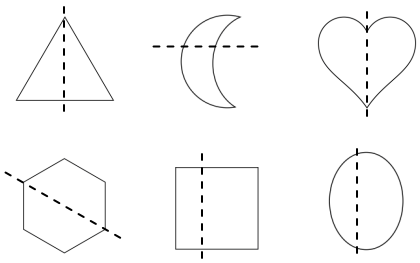
Name _____ Date _____

Lines of Symmetry

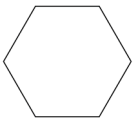
1. Lani sorted the following figures into groups. Circle the figures that she put into a group with 0 right angles and more than 2 lines of symmetry.



2. Circle the figures that show a line of symmetry.

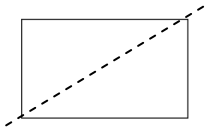


3. Max found six lines of symmetry in a hexagon below. Was he correct? Draw lines of symmetry in the hexagon below to find out.



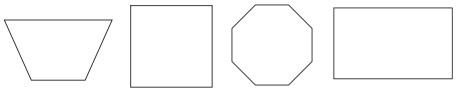
___Correct ___Incorrect

4. Kate folded a rectangle along the line shown below. Does this fold show a good line of symmetry?

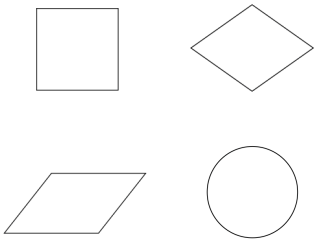


___Yes ___No

5. Greg sorted the figures below in groups. Circle the figures that he put into a group with at least 2 right angles and more than one line of symmetry.



6. In which figures below is every diagonal **always** a line of symmetry?

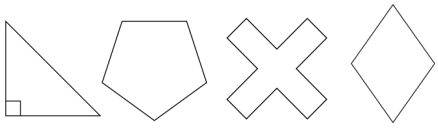


7. Circle the letters below that have **exactly one** line of symmetry.

E N

O T

8. Ann sorted the figures below in groups. Circle the figures that she put into a group with parallel lines.



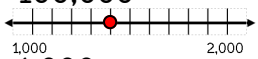
9. Randy found 1 line of symmetry in the star below. Was he correct? Draw lines of symmetry in the star below to find out.

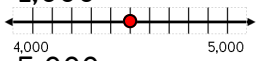
___Correct ___Incorrect

Answer Keys

Page 1: **Find the Value**
1. 6,000
2. 500,342
3. 100
4. 3
5. 10,000
6. 39,207
7. 10
8. 743,620
9. 30,000
10. 5

Page 2: **Writing Whole Num.**
1. 2,391
2. sixty three thousand, two hundred eighty one
3. 50,000 + 2,000 + 400 + 70 + 3
4. 426,805
5. 715,344
6. 220,154
7. answers will vary
8. answers will vary

Page 3: **Rounding Numbers**
1. 3,470
2. 52,300
3. 65,000
4. 570,000
5. 100,000
6. 

7. 1,000
8. 

9. 5,000
10. 24,680 24,700 25,000 20,000

Page 4: **Add & Sub. Whole #'s**
1. 9,851
2. 2,683
3. 648
4. 1,360
5. 6,169
6. 5,626
7. Polar Bear & Tiger
8. 742
9. She didn't carry the 1 in 6 + 9.

Page 5: **Multiplying Whole #'s**
1. 555
2. 180
3. 122 x 2 = 244
4. $12.50
5. 80
6. 2,520

Page 6: **Dividing Whole #'s**
1. 35
2. 445
3. 106 R 6
4. 1,962 R 1
5. Correct
6. Incorrect
7. 203
8. 2
9. 145 with 4 leftover

Page 7: **Multiplication Equat.**
1. 36 years old
2. 18 quarts
3. 15 miles
4. 9 x 2 = 18
5. 8 x 7 = 56
6. 11 x 2 = 22
7. 10
8. 2
9. 4

Page 8: **Comparisions**
1. 8
2. $144
3. 500
4. 76
5. 2,880
6. Max = 12 Tony = 4
7. 192
8. 3 times
9. 192
10. 5 times
11. 4 lawns
12. 5,000 pounds

Page 9: **Multi-Step Problems**
1. 9
2. 113
3. $9.00
4. 16
5. $155
6. 5
7. $18
8. 26
9. 27

Page 10: **Factors & Multiples**
1. 3, 6, 9, 12, 15
2. 9, 18, 27, 36, 45
3. 4, 8, 12, 16, 20
4. 1, 2, 3, 4, 6, 12
5. 1, 3, 7, 21
6. 1, 2, 3, 4, 6, 9, 12, 18, 36
7. multiples
8. factor
9. true
10. 3, (6), 9, 12, 15
    (6), 12, 18, 24, 30
11. 4, 8, 12, 16, (20)
    5, 10, 15, (20), 25
12. 8, 16, (24), 32, 40
    12, (24), 36, 48, 60

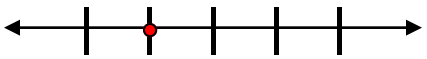
Page 11: **Prime & Composite**
1. Factors: 1, 5
   Prime
2. Factors: 1, 3, 9
   Composite
3. Factors: 1, 2, 3, 4, 6, 12
   Composite
4. Factors: 1, 19
   Prime
5. Factors: 1, 2, 3, 4, 6, 8, 12, 24
   Composite
6. Factors: 1, 2, 3, 4, 6, 9, 12, 18, 36
   Composite
7. Factors: 1, 3
   Prime

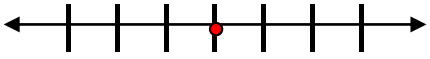
Answer Keys

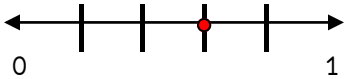
Page 12: Find the Pattern

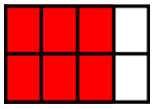
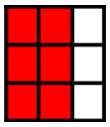
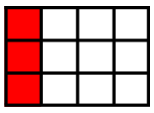
1. 2,800
2. 18, 25
3. 114
4. 
5. 
6. 
7. 51, 54, 57, 60
8. 18, 16,. 20, 18, 22
9. 20, 23, 17, 20, 14
10. 10, 5, 15, 19, 14
11. 9, 6, 30, 36, 33
12. 7, 5, 20, 25, 23

Page 13: Equivalent Fractions

1. $\frac{2}{10} = \frac{4}{10}$
2. $\frac{3}{6} = \frac{1}{3}$
3. $\frac{1}{4} = \frac{2}{8}$
4. 

   $\frac{1}{3}$ (more than one answer is possible)
5. 

   $\frac{1}{2}$ (more than one answer is possible)
6. 

   $\frac{6}{10}$ (more than one answer is possible)
7. 4
8. 6
9. 3
10. 6 
11. 4 
12. 3 

Page 14: Comparing Fract.

1. <
2. >
3. =
4. <
5. =
6. >
7. $\frac{3}{4}$
8. $\frac{4}{5}$
9. $\frac{5}{8}$
10. false, true, true
11. true, false, false
12. false, false, true

Page 15: Add/Sub. Fract.

1. $\frac{1}{2}$
2. $\frac{3}{5}$
3. $\frac{1}{6}$
4. 1
5. $\frac{2}{3}$
6. $\frac{4}{7}$
7. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
8. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
9. $\frac{1}{3} + \frac{1}{3}$
10. $2\ \frac{1}{4}$
11. $1\ \frac{2}{5}$
12. $\frac{16}{3}$
13. $\frac{22}{9}$

Page 16: Multiplying Fractions

1. $2 \times \frac{1}{4}$
2. $3 \times \frac{1}{8}$
3. $\frac{3}{5}$
4. $\frac{2}{3}$
5. 6
6. $\frac{3}{5}$
7. $\frac{26}{8}$
8. $\frac{41}{10}$
9. $\frac{20}{8}$
10. $\frac{47}{9}$
11. 3
12. $3\frac{2}{6} = 3\frac{1}{3}$
13. $5\frac{1}{3}$
14. $5\frac{3}{5}$

Page 17: Fraction Models

1. 0.4 $\frac{4}{10}$
2. 0.45 $\frac{45}{100}$
3. 0.30 $\frac{30}{100}$
4. 60
5. 20
6. magnet
7. $\frac{50}{100}$
8. $\frac{7}{10}$
9. $\frac{90}{100}$

Answer Keys

Page 18: **Fractions & Decimals**

1. 0.2
2. 0.08
3. 0.40
4. $\frac{5}{10}$
5. $\frac{22}{100}$
6. $\frac{73}{100}$
7. eight tenths
8. thirty hundredths
9. six tenths
10. D
11. three tenths
12. B
13. fifty two hundredths

Page 19: **Comparing Decimals**

1. 0.4 < 0.7
2. 0.54 > 0.50
3. 0.3 < 0.9, 0.32 > 0.30
4. > < =
5. = > <
6. 0.20 is equal to 0.2
7. 0.6 is greater than 0.50

Page 20: **Sizes of Units**

1. 1, 4
   6, 15
2. 4, 8
   1, 3
3. 1, 3
   32, 64
4. 120, 240
   1, 3
5. 100, 600
   3, 9
6. 3, 9
   1,000, 6,000
7. 1, 6
   4,000, 9,000
8. 3,000, 8000
   1, 5
9. 2000
10. 50
11. 18
12. 40

Page 21: **Measurement Word Problems**

1. 28 hours
2. 10 books
3. 3,000 meters
4. 250 centimeters
5. 3:45
6. $10.50
7. $6\frac{1}{4}$
8. 24 ounces
9. Sam

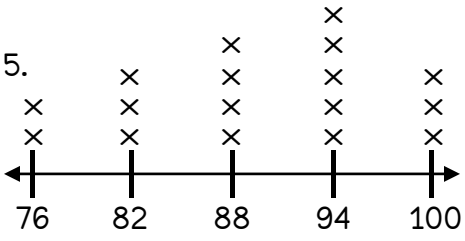
Page 22: **Area & Perimeter**

1. 10 sq. units
2. 12 cm
3. 18 in.
4. 10 ft.
5. 80 ft.
6. 38 in.
7. 384 ft.
8. 32 miles
9. 8 meters

Page 23: **Line Plots**

1. $1\frac{3}{6} = 4\frac{1}{2}$ inches
2. $1\frac{1}{4}$ feet
3. 9 miles
4. $5\frac{3}{4}$ inches

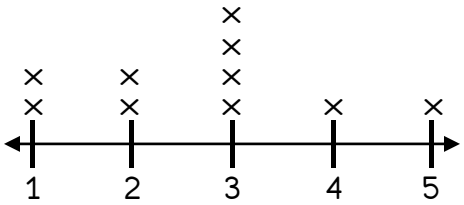
5.



student's grades

(each x represents 1 student)

6.



number of computers

(each x represents 1 family)

Page 24: **Measuring Angles**

1. b
2. a
3. 52
4. 7 times
5. It would take the same amount of time.
6. 90°
7. c
8. b
9. d

Page 25: **Using a Protractor**

1. 65°
2. 120°
3. 95°
4. 25°
5. 145°
6. 180°

Page 26: **Missing Measurements**

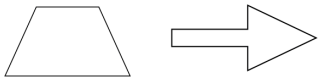
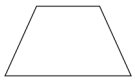
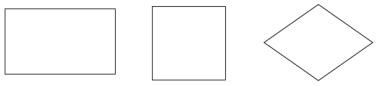
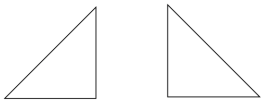
1. 95°
2. 74°
3. 59°
4. 45°
5. 153°
6. 118°
7. 11 more times
8. 3 times
9. 315°

Answer Keys

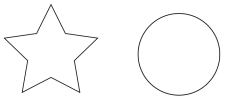
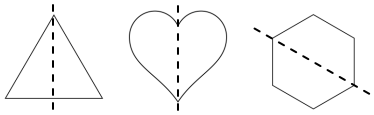
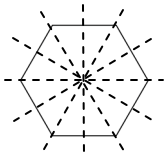
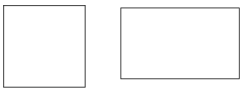
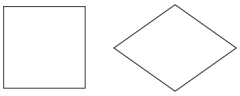
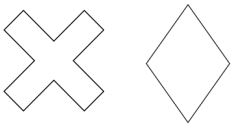
Page 27: **Lines, Angles & Rays**

1. line segment
2. ray
3. line
4. perpendicular lines
5. parallel lines
6. intersecting lines
7. right angle
8. obtuse angle
9. acute angle

Page 28: **Classifying Shapes**

1. 
2. 
3. 
4. right triangle
5. It has 3 unequal sides.
6. All sides are equal.
7. 
8. right triangle
9. 

Page 29: **Lines of Symmetry**

1. 
2. 
3. Correct 
4. No
5. 
6. 
7. **E T**
8. 
9. Incorrect