

June 14, 2021

Dear Sixth Grade Student,

Complete this math packet over the summer and submit it to your 6<sup>th</sup> grade math teacher on the Tuesday of the first week of school in September 2021. It will count as your first test grade for the year. Make sure you show all work where it is needed and circle the letter of the correct answer when it's given. Take your time by solving some problems each day. Use your study guide as a reference.

As you begin your middle school years, may you continue to be successful in all that you do. Remember that "Our Lady of Sorrows provides an atmosphere rooted in the Catholic faith, dedicated to individual academic excellence, while preparing life-long learners and responsible Christian adults." May Our Blessed Mother be your "guide through all the coming years."

Have a safe, healthy, and happy summer!

God bless,

Mrs. Costantini

Name \_\_\_\_\_ Date \_\_\_\_\_

Math Summer Packet

6<sup>th</sup> Grade

September 2021

**Directions:** Circle the letter of the correct answer for numbers 1 – 3.

1. What is the value of the 6 in 1,286,035,124?

A. 600,000      B. 600      C. 6,000,000

2. Order the numbers from least to greatest.

316, 450; 316,399; 316,576

A. 316,450; 316,576; 316,399

B. 316,576; 316,450; 316,399

C. 316,399; 316,450; 316,576

3. What is 563,044 rounded to the nearest ten?

A. 560,000      B. 600,000      C. 563,040

**Directions:** Add find the sum.

4. 48,898  
  +61,124

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**Directions:** Subtract to find the difference.

$$\begin{array}{r} 5. \quad 31,216 \\ \quad - 18,927 \\ \hline \end{array}$$

**Directions:** Add the decimals.

$$\begin{array}{r} 6. \quad 6.062 \\ + \quad 17.581 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 132.650 \\ + \quad 58.936 \\ \hline \end{array}$$

**Directions:** Subtract the decimals.

$$\begin{array}{r} 8. \quad 23.009 \\ - \quad 1.453 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \$6.18 \\ - \quad \$4.79 \\ \hline \end{array}$$

Name \_\_\_\_\_

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**Directions:** Solve the equation.

10.  $9 + n = 19$        $n =$  \_\_\_\_\_

**Directions:** Multiply and find the product.

11.      4,854  
      X    3

12.      343  
      X 29

**Directions:** Solve the following word problem.

13.      A stadium has 200 rows of 225 seats. How many seats are in the stadium?

Name \_\_\_\_\_

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**Directions:** Divide and check with multiplication by multiplying the quotient by the divisor. Your answer will be the dividend.

14.  $4 \overline{)873}$

Check

15.  $67 \overline{)807}$

Check

16.  $30 \overline{)6172}$

Check

**Directions:** Solve the following word problem.

17. Three friends equally share a bag of 813 pennies. How many pennies does each friend get?

**Directions:** Multiply the decimal by the whole number.

18.     0.76  
      X 28

19.     1.04  
      X 16

**Directions:** Divide the decimal by the whole number.

20.  $4 \overline{)1.6}$

21.  $5 \overline{)0.70}$

**Directions:** Write the decimal place value of the underlined digit.

22.  $2.\underline{4}16$  \_\_\_\_\_

23.  $66.\underline{3}92$  \_\_\_\_\_

**Directions:** Write in standard form.

24. forty-two and nine hundredths \_\_\_\_\_

25. ten and three tenths \_\_\_\_\_

**Directions:** Find the value. Remember an exponent shows how many times a number, called the base, is used as a factor.

26.  $4^3$  \_\_\_\_\_

**Directions:** Complete the factor tree to find the prime factorization. Use exponents when appropriate.

27.

54

6 X \_\_\_\_\_

**Directions:** Write if the number is divisible by 2, 3, 4, 5, 6, 9, or 10. Use your divisibility rules chart from your math study guide to help.

28. 24 \_\_\_\_\_

**Directions:** List the factors for each number. Then, write the greatest common factor or GCF for the set of numbers.

29. 4: \_\_\_\_\_

12: \_\_\_\_\_

GCF: \_\_\_\_\_



Name \_\_\_\_\_

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**Directions:** Write each fraction in lowest terms.

30.  $\frac{2}{10} =$

31.  $\frac{8}{12} =$

**Directions:** Write the missing term.

32.  $\frac{3}{4} = \frac{9}{\quad}$

33.  $\frac{4}{7} = \frac{\quad}{35}$

**Directions:** List the first ten nonzero multiples of each number.

34. 3: \_\_\_\_\_

35. 5: \_\_\_\_\_

**Directions:** What is the least common multiple or LCM for the following problems?

36. 7 and 14

Multiples of 7: \_\_\_\_\_

Multiples of 14: \_\_\_\_\_

LCM: \_\_\_\_\_

37. 4 and 10

Multiples of 4: \_\_\_\_\_

Multiples of 10: \_\_\_\_\_

LCM: \_\_\_\_\_

Name \_\_\_\_\_

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**Directions:** Write the least common denominator or LCD of each set of fractions.

38.  $\frac{2}{8}$  and  $\frac{3}{12}$

Multiples of 8: \_\_\_\_\_

Multiples of 12: \_\_\_\_\_

LCD: \_\_\_\_\_

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

Multiples of 3: \_\_\_\_\_

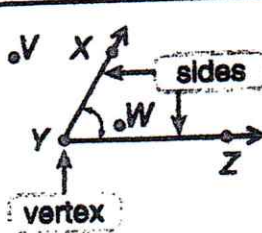
Multiples of 5: \_\_\_\_\_

LCD: \_\_\_\_\_

# Measure and Draw Angles

Name \_\_\_\_\_

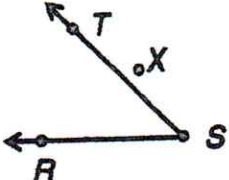
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Name:  $\angle Y$  or  $\angle XYZ$  or  $\angle ZYX$   
 Sides:  $\overrightarrow{YX}$ ,  $\overrightarrow{YZ}$   
 Vertex: Y  
 $\angle Y$  measures  $60^\circ$ .

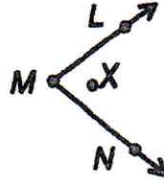
V is in the exterior of  $\angle XYZ$ .  
 W is in the interior of  $\angle XYZ$ .

Name the sides and vertex of each angle, and tell whether point X is in the interior or exterior of the angle.

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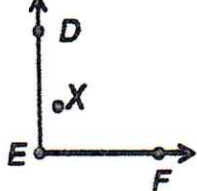
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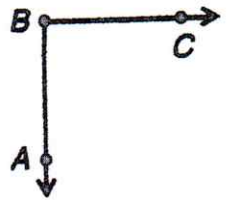
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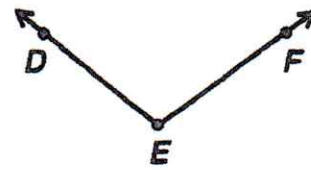
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Estimate the measure of each angle. Then use a protractor to find the exact measure of each angle.

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\_\_\_\_\_

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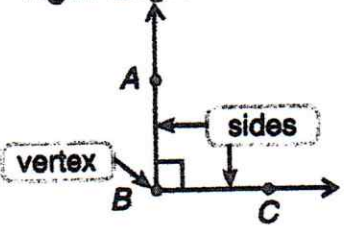
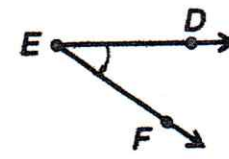
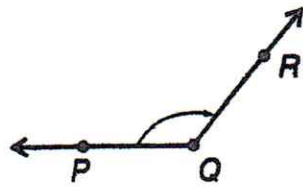
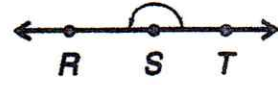
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## Identify Angles

Name \_\_\_\_\_

Date \_\_\_\_\_

<p><b>right angle</b></p>  <p><math>\angle ABC = 90^\circ</math></p>	<p><b>acute angle</b></p>  <p><math>\angle DEF &lt; 90^\circ</math></p>	<p><b>obtuse angle</b></p>  <p><math>\angle PQR &gt; 90^\circ</math></p>	<p><b>straight angle</b></p>  <p><math>\angle RST = 180^\circ</math></p>
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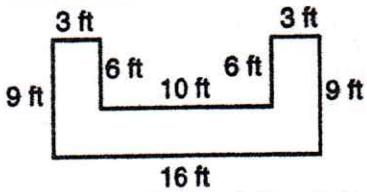
Write whether each angle is acute, right, obtuse, or straight.

- $130^\circ$  \_\_\_\_\_
- $15^\circ$  \_\_\_\_\_

# Perimeter

Name \_\_\_\_\_

Date \_\_\_\_\_



$$P = 9 \text{ ft} + 3 \text{ ft} + 6 \text{ ft} + 10 \text{ ft} + 6 \text{ ft} + 3 \text{ ft} + 9 \text{ ft} + 16 \text{ ft}$$

$$P = 62 \text{ ft}$$



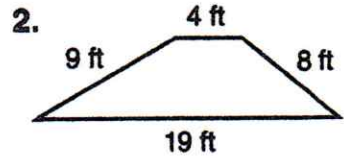
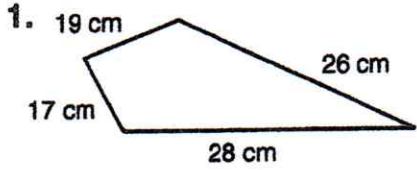
$$P = (2 \times \ell) + (2 \times w)$$

$$P = (2 \times 75 \text{ in.}) + (2 \times 26 \text{ in.})$$

$$P = 150 \text{ in.} + 52 \text{ in.}$$

$$P = 202 \text{ in.}$$

Find the perimeter of each polygon.



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# Areas of Rectangles and Squares

Name \_\_\_\_\_

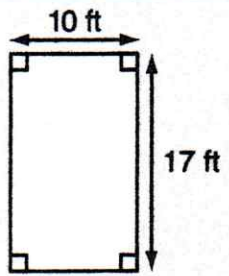
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## Rectangles

$$A = \ell \times w$$

$$A = 17 \text{ ft} \times 10 \text{ ft}$$

$$A = 170 \text{ ft}^2$$

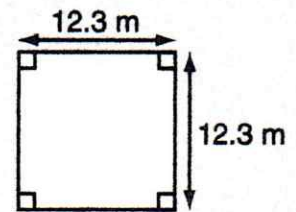


## Squares

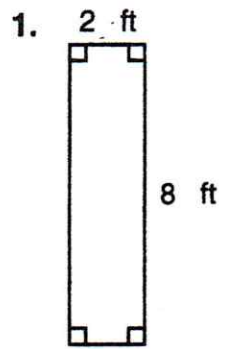
$$A = s \times s = s^2$$

$$A = 12.3 \text{ m} \times 12.3 \text{ m}$$

$$A = 151.29 \text{ m}^2$$

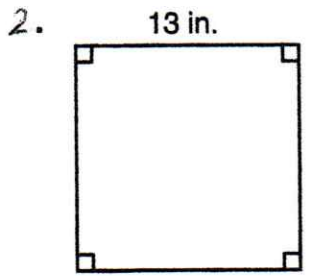


Find the area of each rectangle.



\_\_\_\_\_

Find the area of each square.



\_\_\_\_\_