

## **Welcome to 7th grade math! We are so excited to have you with us next year :)**

The absolute best way to prepare for and get ready for math is to practice it! Whether it is studying for a quiz/test, getting ready for a new year in math, and even just to help understand a new skill. Practice helps build our confidence within math and our understanding. That is what this packet is here for!

When completing the packet, you may use any resource available to help you with your work. You can ask a parent or older sibling for help, or review your skills using educational websites like Khan Academy and Math IXL. **Pay attention to the underlined words within the questions. Those words are going to be your keywords to use when searching for them on iXL or Khan Academy.** You can even review with your friends! **We would like to see all of your work, so please write on the packet itself. If needed, use extra notebook paper and staple it to the back of your packet.** You may check your work with a calculator (on most problems) as long as you show handwritten strategy work.

**Please complete it by the beginning of the 2021-2022 school year. We will be going over the first 4 pages within the first couple of weeks. Those are our important skills to know before moving into 7th grade math.**

Your summer packet is located in two places: the **Timberstone front office** and the homepage of the Sylvania Schools Timberstone school website.

To access your summer work on the Sylvania Schools Timberstone website:

- [www.sylvaniaschools.org](http://www.sylvaniaschools.org). Select “Our Schools” then “Timberstone”.
- Find the list of summer homework links on the right side of the page.
- Click on the appropriate grade and your assigned math class.
- Print the packet and start working :)

Please reach out to either myself or Ms. Marshall with any questions you may have. We look forward to meeting you! - Ms. Keleher

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Name \_\_\_\_\_

Time Spent Working \_\_\_\_\_

List all the factors of each number.

1. 12

2. 45

Tell whether each number is prime or composite.

3. 95

4. 17

Tell whether the second multiple is a multiple of the first.

5. 2; 71

6. 3; 10

Write the prime factorization. Use exponents when possible.

7. 78

8. Find the least common multiple and the greatest common factor for each pair of numbers:

a. 8 and 12

b. 7 and 15

Write each mixed number as an improper fraction.

1.  $1 \frac{7}{8}$

Write each decimal as a fraction.

2. 0.6

3. 1.25

Write each improper fraction as a mixed number in simplest form.

4.  $\frac{5}{2}$

Write each fraction as a decimal.

5.  $\frac{3}{50}$

Order from least to greatest. (Draw a picture if needed)

6.  $\frac{1}{4}$ ,  $\frac{2}{5}$ ,  $\frac{3}{8}$

Compare each pair of fractions. Use  $<$ ,  $>$ , or  $=$ . Fill in the box.

8.  $\frac{7}{8}$

$\frac{3}{10}$

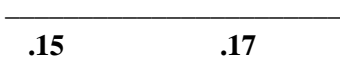
9.  $\frac{6}{12}$

$\frac{4}{8}$

Write each of the decimal numbers in words.

1. 8.0552

Label the unlabeled marks with decimal numbers.

2. 

3. Fill in the missing parts of the table.

Fraction	Decimal	Percent
$\frac{3}{8}$		
	0.88	
		35%
$1\frac{1}{4}$		
	0.625	
		275%

**Note: Please do NOT use a calculator on this units work!**

**1. Find each quotient. Show your strategy!**

a.  $12 \div \frac{1}{2}$

b.  $12 \div \frac{1}{3}$

c.  $\frac{5}{6} \div \frac{1}{3}$

**2. Estimate each sum. Use the benchmarks 0,  $\frac{1}{2}$ , and 1. (Do not actually solve).**

a.  $\frac{5}{16} + \frac{5}{8}$

b.  $\frac{1}{10} + \frac{1}{2}$

**Find each sum or difference. Show your strategy!**

3.  $7\frac{1}{3} + 5\frac{11}{12}$

4.  $8\frac{1}{3} - 2\frac{3}{8}$

**Find each product. Show your strategy! (Cross simplify???)**

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

6.  $\frac{2}{3} \times \frac{1}{2}$

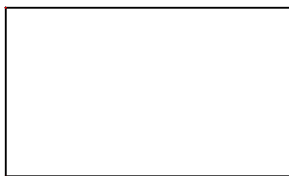
7.  $\frac{1}{4}$  of  $\frac{4}{5}$

8.  $\frac{5}{6} \times \frac{2}{3}$

**Find the perimeter and area of each figure. Show formula work!**

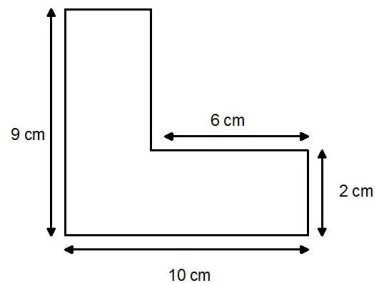
1.

8 cm



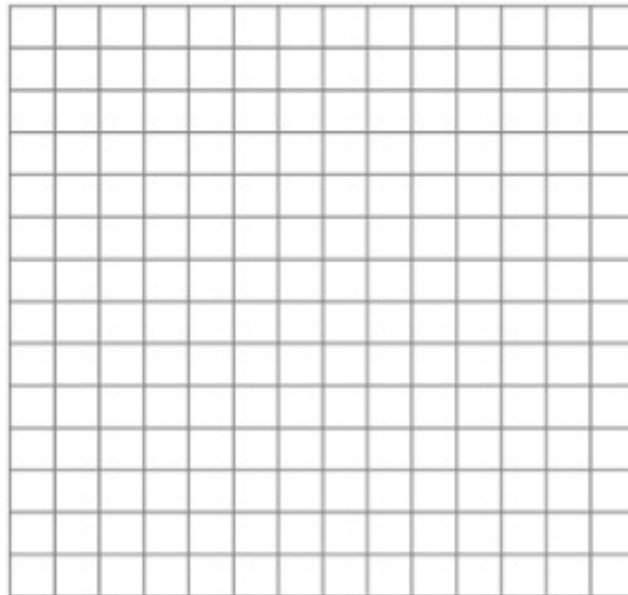
15 cm

2.





**B. Plot the (*number of students, catering costs*) on a graph. Use different colors or plotting symbols for points to show the two catering companies.**



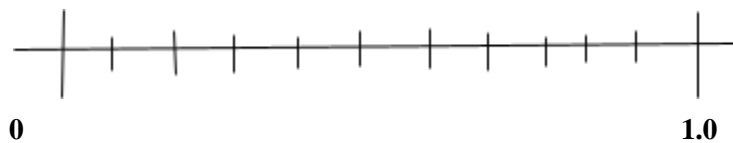
**First estimate. Then find each sum or difference. Show your strategy!**

**1.  $0.6+5.8$**

**2.  $3.4- 0.972$**

**Order each set of decimals on a number line.**

**3.  $0.26, 0.3, 0.5, 0.59, 0.7$**



Find each product. Show your strategy!

$$\begin{array}{r} 5.342 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 6.4 \\ \times 0.09 \\ \hline \end{array}$$

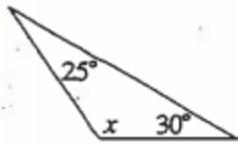
Find each quotient. Show your strategy!

$$0.4 \overline{) 1.08}$$

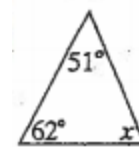
$$9 \overline{) 21.6}$$

Find the measure of each angle labeled  $x$ .

1.

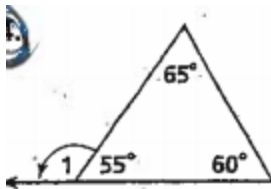


2.

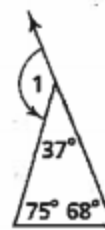


Find the measure of angle 1 in each figure.

3.



4.





Use the diagram below to identify all the polygons for each name. (List as many letters as there are that fit the name)

5. Quadrilateral

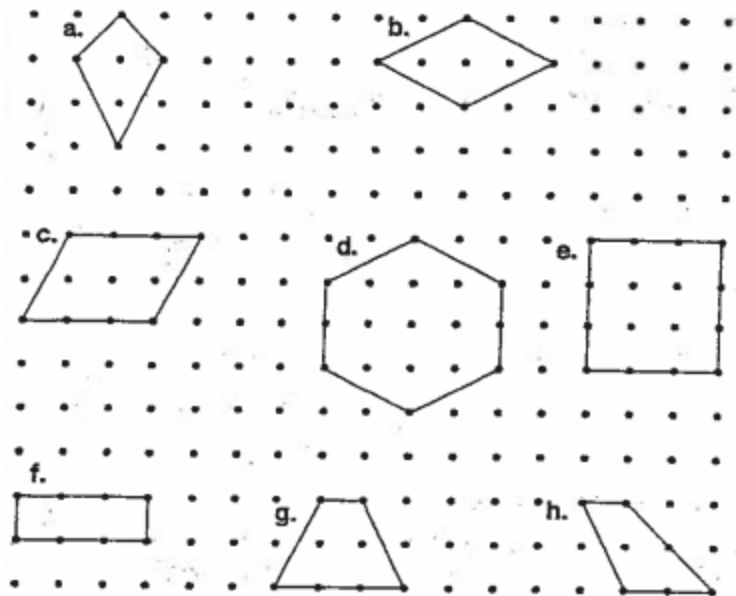
6. Parallelogram

7. Rhombus

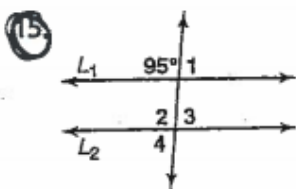
8. Rectangle

9. Square

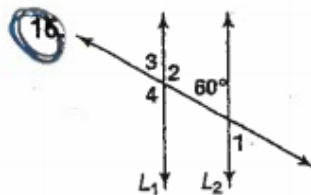
10. Trapezoid



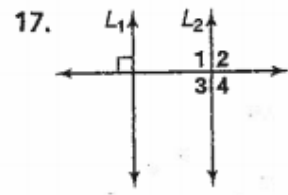
In each diagram below, lines  $L_1$  and  $L_2$  are parallel lines cut by a transversal. Find the measure of each numbered angle.



$m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$   
 $m\angle 4 = \underline{\hspace{2cm}}$



$m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$   
 $m\angle 4 = \underline{\hspace{2cm}}$



$m\angle 1 = \underline{\hspace{2cm}}$   
 $m\angle 2 = \underline{\hspace{2cm}}$   
 $m\angle 3 = \underline{\hspace{2cm}}$   
 $m\angle 4 = \underline{\hspace{2cm}}$