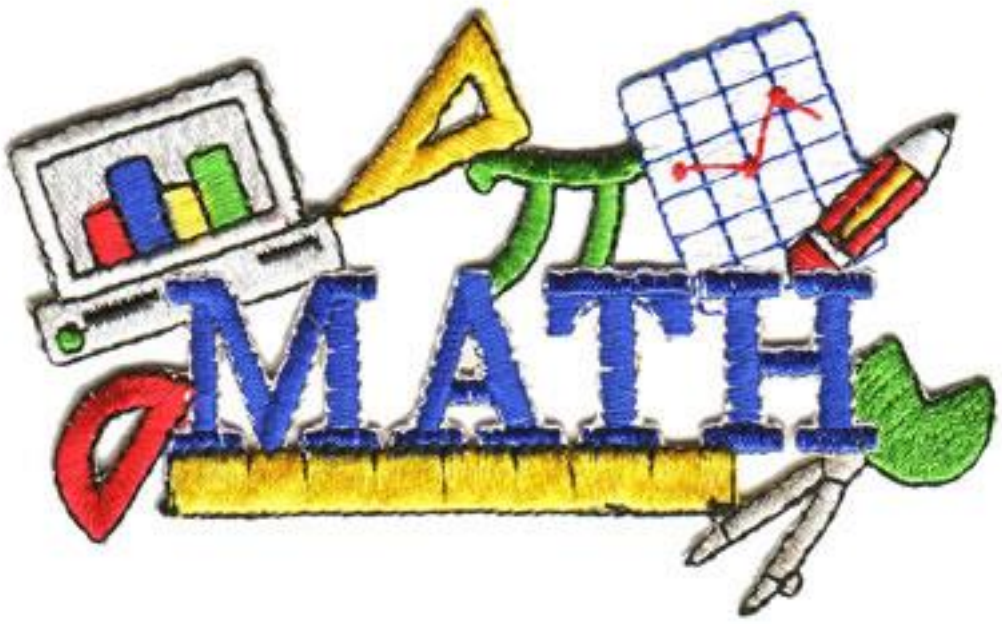
Earle B. Wood Middle School
Summer Math Packet



For Students Entering Math 6

This summer math booklet was developed to provide students an opportunity to review math objectives and to improve math performance.

Student Responsibilities

Students will be able to improve their own math performance by:

- Completing the summer math booklet
- Reviewing math skills throughout the summer.

Student Signature	Grade	Date

Parent or Guardian Responsibilities

Parents will be able to promote student success in math by:

- Asking students to explain why their answers are correct,
- Monitoring student completion of the summer math booklet,
- Talking about the concepts with students and listening to student questions and comments.

Parent Signature	Date

In each problem, place decimal point(s) to make each equation true.

2 4 x 3 3 = 7.92

1 1 5 + 9 3 = 124.3

4 1 0 ÷ 2 0 = 2.05

1 9 9 - 1 7 = 0.29

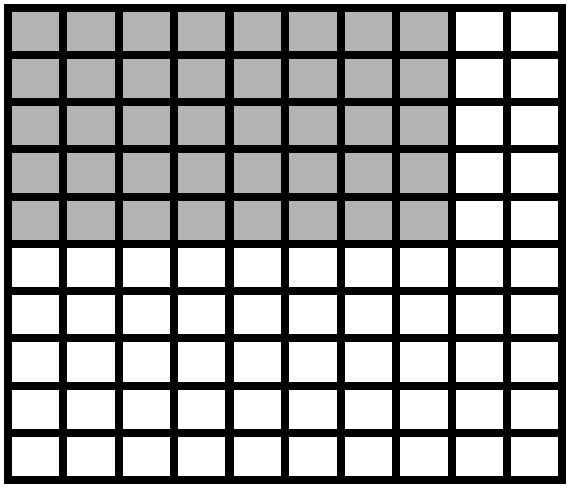
1 2 x 1 2 = 14.4

4 3 0 + 1 3 = 56.0

3 6 0 ÷ 4 5 = 0.8

1 9 8 - 1 7 = 18.1

Using the hundredths grid below, write a valid mathematical equation



_____ x _____ = _____

Model each problem using an area diagram. Then solve.

$? = 5 \div \frac{2}{3}$

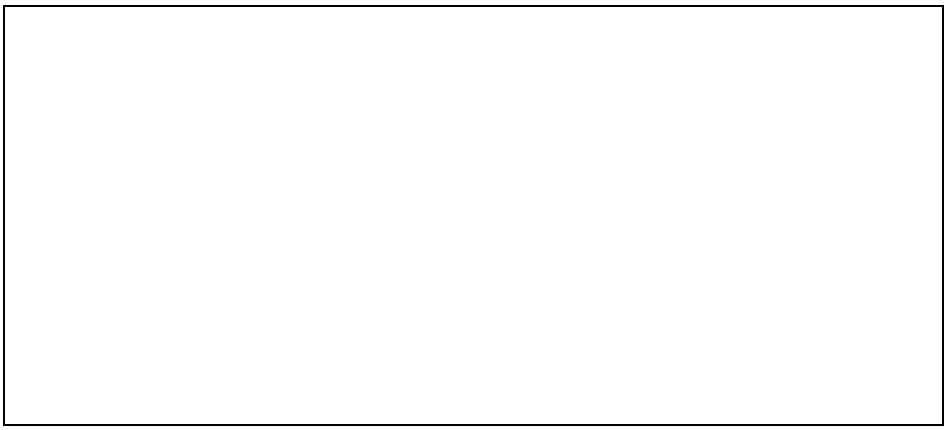
$10 \div 4 = ?$

Answer: _____

Answer: _____

After yesterday's party, ¼ of a cake remains. If three friends want to share the cake, how much of the cake will each have?

a. Model the problem in the space below:



b. Write a division equation and a multiplication equation for this problem.

____ x ____ = ____

____ ÷ ____ = ____

Use **drawings** to represent and solve each.

How many ¼ cup servings of maple syrup are in a container of 4½ cups of syrup?

Answer: _____

How many $\frac{2}{3}$ cups servings of cereal can be made from a six cup package?

Answer: _____

Evan can take two different routes to school. One path takes $\frac{5}{12}$ of an hour. The other path takes $\frac{6}{11}$ of an hour.

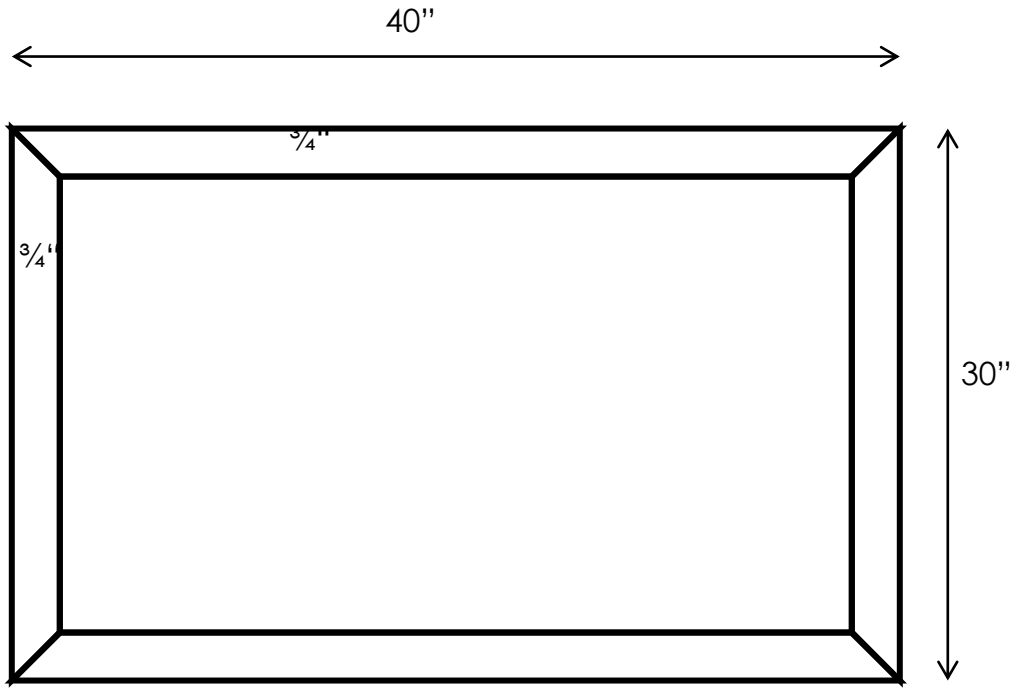
Which path takes the least amount of time?

Answer: _____

How much time does the shorter path take?

Answer: _____

The dimensions of a television set measure the screen size. The television Jennifer wants to buy has a ¾" border around the screen. The television is shown below:



What is the area of the screen?

Answer: _____

Explain how decomposing $\frac{4}{7}$ helps model $\frac{1}{2}$ of $\frac{4}{7}$:

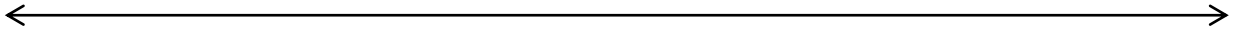
$$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$$

Use a number line to determine the answer to the following problems. Express you answer as a mixed number if necessary.

Matt has 5 pizzas. A single serving is $\frac{3}{8}$ of a pizza. How many servings does Matt have?

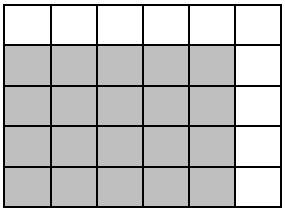
Answer: _____

Jae's car has an 11-gallon tank of gasoline. Driving to Philadelphia will take $\frac{7}{9}$ of the tank. How many gallons of gasoline will be used?



Answer: _____

The partition model below represents the time Mrs. Peter worked in her garden.



Which story would be represented by the partition model?

a. Mrs. Peter worked for $\frac{6}{5}$ of an hour in the garden and spent $\frac{5}{4}$ of that time planting flowers.
b. Mrs. Peter worked for $\frac{6}{5}$ of an hour in the garden and spent $\frac{4}{5}$ of that time planting flowers.
c. Mrs. Peter worked for $\frac{5}{6}$ of an hour in the garden and spent $\frac{4}{5}$ of that time planting flowers.
d. Mrs. Peter worked for $\frac{5}{6}$ of an hour in the garden and spent $\frac{5}{4}$ of that time planting flowers.

What fractional part of an hour did Mrs. Peter spend planting flowers?

With 60 minutes in one hour, how many minutes did Mrs. Peter spend planting flowers?

For each equation, determine if the product will be greater than, less than or equal to the first number in the equation without calculating. Then write the reason for you answer.

Equation	Greater than (>), less than (<), or equal to (=)…
$\frac{5}{6} \times \frac{5}{6} =$	$\frac{5}{6}$
Reason:	
$1\frac{1}{9} \times 2\frac{1}{6} =$	$1\frac{1}{9}$
Reason:	
$\frac{20}{5} \times \frac{5}{5} =$	$\frac{20}{5}$
Reason:	
$\frac{5}{6} \times \frac{6}{5} =$	$\frac{5}{6}$
Reason:	

Fraction Operations

Directions: Fill in the missing parts of each fraction

$\frac{\quad}{2} + \frac{4}{3} = \frac{13}{6}$

$1\frac{\quad}{2} + 1\frac{1}{5} = 2\frac{7}{10}$

$???\frac{1}{4} + 1\frac{5}{6} = 4\frac{1}{12}$

$\frac{\quad}{20} - \frac{1}{4} = 0$

$\frac{13}{11} - \frac{7}{\quad} = \frac{6}{11}$

$\frac{\quad}{2} - \frac{4}{3} = \frac{13}{6}$