

# Enrichment Packet #3

Due: Monday 9/24

NAME: \_\_\_\_\_

# Mental Puzzles

Using mental math to add helps you find tens and hundreds.

**Mental Math**

1. Look at each number in the puzzle board. Find two numbers in the box whose sum equals that number. Use each number *only once*. Do not use paper and pencil or a calculator.

119	225	511	259	173	28
486	374	375	227	164	314
389	136	72	241	81	326

Puzzle Board		
100 + _____	200 + _____	300 + _____
400 + _____	500 + _____	600 + _____
700 + _____	800 + _____	900 + _____

2. Explain what methods you used to help you solve the puzzle board.

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# Canyon Trip

You are going on a three-day camping trip in the Grand Canyon. The chart shows the weights of some equipment you may need. Each person must take at least 2 water canteens and 3 food tins on the trip.

## Decision Making

Equipment	Weight (lb)
Water canteen	1
Food tin	2
Compass	1
Shovel	5
Binoculars	3
Tent	8
Chair	10
Pillow	2
Extra clothes	7
Cooking pots/pans	30
Sleeping cushion	4

1. You are going to hike alone and carry a backpack. The backpack can hold up to 25 lb. What equipment will you take on the trip?

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2. You are hiking with 2 friends. Each will carry 1 backpack. The 3 of you can carry up to 75 lb. You will only need 1 tent. What equipment will you take on the trip?

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3. You and 4 friends are taking a donkey on the trip. The donkey can carry 180 lb. You will not take backpacks. You will need 2 tents. What equipment will you take on the trip?

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# Birdhouses

**Algebra**

Cecilia owns a store that specializes in selling decorated birdhouses. The table at the right shows the number of birdhouses Cecilia sold each month. Write an expression to represent the following situations.

1. How many birdhouses did Cecilia sell in May and June together?

\_\_\_\_\_

2. How many more birdhouses did Cecilia sell in October than in September?

\_\_\_\_\_

3. What is the total number of birdhouses Cecilia sold from February through May?

\_\_\_\_\_

4. If Cecilia sold 152 birdhouses in May, how many birdhouses did she sell in January and May combined?

\_\_\_\_\_

5. If Cecilia sold 257 birdhouses in September, how many more birdhouses did she sell in September than in August?

\_\_\_\_\_

6. The company that makes the birdhouses is now charging \$4 more for each birdhouse. If Cecilia used to pay  $b$  for each birdhouse, how much will she need to pay now?

\_\_\_\_\_

**Birdhouses Sold**

January	417
February	379
March	341
April	262
May	$m$
June	89
July	76
August	94
September	$s$
October	296
November	439
December	611

## Adding Decimal Numbers

Add and write the answers in the boxes. Show your work.

The first one is done for you!

$$0.8 + 0.58 = \boxed{1.38}$$

$$\begin{array}{r} 0.8 \\ + 0.58 \\ \hline 1.38 \end{array}$$

Line up the decimal point in 0.8 with the decimal point in 0.58 and the decimal point in the answer. Then add just like whole numbers.

$$0.38 + 0.9 = \boxed{\phantom{00.00}}$$

$$3 + 0.27 = \boxed{\phantom{00.00}}$$

$$0.5 + 0.07 = \boxed{\phantom{00.00}}$$

$$0.38 + 9.15 = \boxed{\phantom{00.00}}$$

# Subtracting Decimal Numbers

Subtract and write the answers in the boxes. Show your work.

The first one is done for you!

$0.6 - 0.48 = \boxed{0.12}$

$$\begin{array}{r} 0.60 \\ - 0.48 \\ \hline 0.12 \end{array}$$

Fill in 0's to make it easier to line up numbers and subtract.  
Line up the decimal point in 0.6 with the decimal point in 0.48 and the decimal point in the answer.

$0.8 - 0.26 = \boxed{\phantom{0.00}}$

$6 - 0.13 = \boxed{\phantom{0.00}}$

$0.9 - 0.05 = \boxed{\phantom{0.00}}$

$9.36 - 0.3 = \boxed{\phantom{0.00}}$