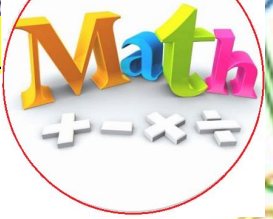


Name: _____

Section: _____



WRITE YOUR NAME

Homework

This week we will be finish with strategies for adding and subtracting.

The TEST is Wed. Sept 13

Then we will begin with multiplication.

Homework is due on MONDAY Sept 18.

Reminders

Please remember that homework is just a reinforcement of what we do in class. When a scholar completes homework, they are retaining the information. A scholar who does not complete the homework is more likely to forget what was learned in class.

Notes

- Homework is graded for completion. **However, students must show their work.** Students will lose 50% of the points if they turn in homework showing no work, even if the answers are present.
- **I will not accept homework more than four days late.** If the homework is **due on Monday**, the last day to turn it in will be **Friday**. Late homework will have points deducted. Homework will be graded as follows:
 - o On time and complete/work shown: 100%
 - o One day late: deduct 11 %
 - o Two days late: deduct 21 %
 - o Three days late: deduct 31%
 - o Four days late: deduct 41%
 - o Five days or more late: Z

Please feel free to contact me with any questions or concerns at natalie.roman@archimedean.org.

<input type="checkbox"/>	<u>Monday</u>	September 11	One-Step Addition
<input type="checkbox"/>	<u>Tuesday</u>	September 12	Two-Step Addition
<input type="checkbox"/>	<u>Wednesday</u>	September 13	None (TEST)
<input type="checkbox"/>	<u>Thursday</u>	September 14	Multiplying by 10s,100s,1000s
<input type="checkbox"/>	<u>Friday</u>	September 15	Estimating Products

One-step word problems

1. Kendra tracks how much data she uses on her smartphone each month. In June, she used 8,175 megabytes of data. In July, she used 2,809 more megabytes of data than in June. How much data did Kendra use in July?

Circle the equation that represents the problem.

$$m - 8,175 = 2,809$$

$$8,175 - m = 2,809$$

Solve the problem. Use the equation you circled or a related equation.

Write an equation to represent each problem. Then solve.

2. ScribbleWorks shipped a large order of glitter pens to a store. When the order arrived, workers at the store found that 1,841 of the pens were broken. So only 12,059 of the glitter pens could be sold. How many glitter pens were ordered?
3. The *Pacific Pearl* cruise ship carries a total of 4,265 people. There are 1,098 crew members. The rest are travelers. How many people on the *Pacific Pearl* are travelers?

Multi-step word problems

1. A school cafeteria manager ordered 3,350 regular milk cartons and 1,550 chocolate milk cartons. By the end of the week, 4,572 cartons of milk were used. How many cartons of milk were left?

Circle the equation you can use to solve the problem.

$$c = 3,350 + 1,550 + 4,572$$

$$c = 3,350 + 1,550 - 4,572$$

$$c = 3,350 - 1,550 + 4,572$$

$$c = 3,350 - 1,550 - 4,572$$

Now solve.

2. Martina makes and sells beaded jewelry. Her last bead order had 1,380 stone beads and 2,250 plastic beads. When her order arrived, some beads were damaged, so she returned them. Martina kept 3,429 beads. How many beads did she return?

3. The MetroRide bus system started the year with 3,295 buses. During the year, 570 older buses were sold. To replace those older buses, MetroRide purchased 1,200 diesel buses and 650 electric buses. How many buses does MetroRide have now?

Multiply Tens, Hundreds, and Thousands

You can use a pattern to multiply with tens, hundreds, and thousands.

Count the number of zeros in the factors.

$$4 \times 6 = 24 \quad \leftarrow \text{basic fact}$$

$$4 \times \underline{60} = \underline{240} \quad \leftarrow \text{When you multiply by tens, the last digit in the product is 0.}$$

$$4 \times \underline{600} = \underline{2,400} \quad \leftarrow \text{When you multiply by hundreds, the last two digits in the product are 0.}$$

$$4 \times \underline{6,000} = \underline{24,000} \quad \leftarrow \text{When you multiply by thousands, the last three digits in the product are 0.}$$

When the basic fact has a zero in the product, there will be an extra zero in the final product:

$$5 \times 4 = 20, \text{ so } 5 \times \underline{4,000} = \underline{20,000}$$

Complete the pattern.

1 $9 \times 2 = 18$
 $9 \times 20 = \underline{\hspace{2cm}}$
 $9 \times 200 = \underline{\hspace{2cm}}$
 $9 \times 2,000 = \underline{\hspace{2cm}}$

2 $8 \times 4 = 32$
 $8 \times 40 = \underline{\hspace{2cm}}$
 $8 \times 400 = \underline{\hspace{2cm}}$
 $8 \times 4,000 = \underline{\hspace{2cm}}$

3 $6 \times 6 = 36$
 $6 \times 60 = \underline{\hspace{2cm}}$
 $6 \times 600 = \underline{\hspace{2cm}}$
 $6 \times 6,000 = \underline{\hspace{2cm}}$

4 $4 \times 7 = 28$
 $4 \times 70 = \underline{\hspace{2cm}}$
 $4 \times 700 = \underline{\hspace{2cm}}$
 $4 \times 7,000 = \underline{\hspace{2cm}}$

Find the product.

5 $7 \times 300 = 7 \times \underline{\hspace{2cm}} \text{ hundreds}$	6 $5 \times 8,000 = 5 \times \underline{\hspace{2cm}} \text{ thousands}$
$\quad = \underline{\hspace{2cm}} \text{ hundreds}$	$\quad = \underline{\hspace{2cm}} \text{ thousands}$
$\quad = \underline{\hspace{2cm}}$	$\quad = \underline{\hspace{2cm}}$

Estimate Products by 1-Digit Numbers

You can use rounding to estimate products.

Round the greater factor. Then use mental math to estimate the product.

$$6 \times 95$$

Step 1 Round 95 to the nearest ten.

95 rounds to **100**.

Step 2 Use patterns and mental math.

$$6 \times 1 = 6$$

$$6 \times 10 = 60$$

$$6 \times 100 = 600$$

Find two numbers the exact answer is between.

$$7 \times 759$$

Step 1 Estimate by rounding to the lesser hundred.

$$7 \times 759$$

Think: $7 \times 7 = 49$

$$7 \times 70 = 490$$

$$7 \times 700 = 4,900$$

$$7 \times 700 = 4,900$$

Step 2 Estimate by rounding to the greater hundred.

$$7 \times 759$$

Think: $7 \times 8 = 56$

$$7 \times 80 = 560$$

$$7 \times 800 = 5,600$$

$$7 \times 800 = 5,600$$

So, the product is between 4,900 and 5,600.

Estimate the product by rounding.

1 6×316

2 5×29

3 4×703

Estimate the product by finding two numbers the exact answer is between.

4 3×558

5 7×252

6 8×361
