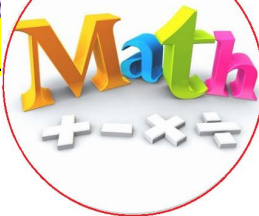Name:_____ Section: _____

Homework

This week we will be finishing multiplication and begin with division.
Homework is due on MONDAY DECEMBER 4

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.

☐	Monday	November 27	Finish Super Bad Super Hero Mystery
☐	Tuesday	November 28	Number Patterns
☐	Wednesday	November 29	NONE
☐	Thursday	November 30	Equivalent Fractions
☐	Friday	December 1	Divide to Find Equivalent Fractions

Number Patterns

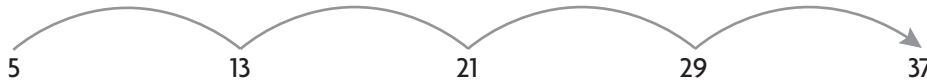## WRITE YOUR NAME OR NO GRADE!

Use the rule to extend the pattern.

1. Rule: *Add 8.* First term: 5

   Think: Add 8.

   5   13   21   29   37

   5, _____, _____, _____, _____, _____, _____, _____, _____, _____, _____, _____, ...

2. Describe a pattern.

   4, 19, 9, 24, 14, 29, 19, 34, 24, 39, 29, 44, ...

   Rule: _____.

3. Use the rule to make the pattern.

   Rule: Subtract 7.   First Term: 95

   95, _____, _____, _____, _____, _____, _____, ...

4. Identify a rule. Use it to extend the pattern.

   54, 63, 72, _____, _____, _____, _____

Problem Solving Real World

5. Bella is making a bead necklace. She strings 1 white bead, then 3 blue beads, then 1 white bead, and so on. Write the numbers for the first eight beads that are white. What is a rule for the pattern?

   _____

   _____

6. An artist is arranging tiles in rows to decorate a wall. Each new row has 2 fewer tiles than the row below it. If the first row has 23 tiles, how many tiles will be in the seventh row?

   _____

7. **WRITE** *Math*   Create your own rule for a pattern.. List a set of numbers that fit the pattern.
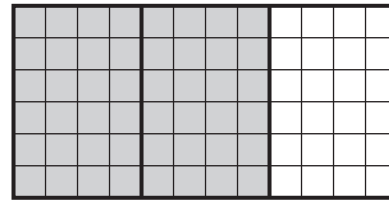
   _____

Equivalent Fractions

WRITE YOUR NAME OR NO GRADE!
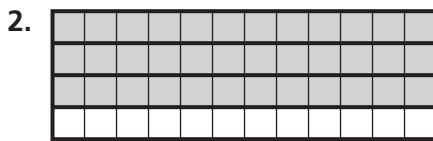
Use the model to write an equivalent fraction.

1.

$$\frac{4}{6} \qquad = \qquad \underline{\quad \frac{2}{3} \quad}$$

2.
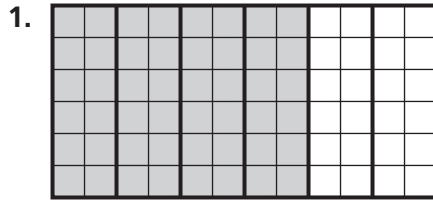
$$\frac{3}{4} \qquad = \qquad \underline{\qquad\qquad}$$

Tell whether the fractions are equivalent. Write = or ≠.   SHOW YOUR WORK!

3. $\frac{10}{8} \bigcirc \frac{5}{4}$

4. $\frac{1}{2} \bigcirc \frac{7}{12}$

5. $\frac{4}{3} \bigcirc \frac{12}{8}$

6. $\frac{2}{3} \bigcirc \frac{4}{6}$

Problem Solving Real World

Use model OR multiplication to answer these questions. SHOW YOUR WORK!!

7. Jamal finished $\frac{5}{6}$ of his homework, Margaret finished $\frac{3}{4}$ of her homework, and Steve finished $\frac{10}{12}$ of his homework. Which two students finished the same amount of homework?

8. Sophia's vegetable garden is divided into 12 equal sections. She plants carrots in 8 of the sections. Write two fractions that are equivalent to the part of Sophia's garden that is planted with carrots.

9. **WRITE** ▸*Math* Draw a model to show a fraction that is equivalent to $\frac{1}{3}$

Use Division to Generate Equivalent Fractions

A fraction is in **simplest form** when 1 is the only factor that the numerator and denominator have in common.

Tell whether the fraction $\frac{7}{8}$ is in simplest form.

Look for common factors in the numerator and the denominator.

Step 1 The numerator of $\frac{7}{8}$ is 7. List all the factors of 7.	$1 \times 7 = 7$ The factors of 7 are **1** and **7**.
Step 2 The denominator of $\frac{7}{8}$ is 8. List all the factors of 8.	$1 \times 8 = 8$ $2 \times 4 = 8$ The factors of 8 are **1**, **2**, **4**, and **8**.
Step 3 Check if the numerator and denominator of $\frac{7}{8}$ have any common factors greater than 1.	The only common factor of 7 and 8 is **1**.
So, $\frac{7}{8}$ is in simplest form.	

Tell whether the fraction is in simplest form. Write yes or no.

1 $\frac{4}{10}$ **2** $\frac{2}{8}$ **3** $\frac{3}{5}$

_____ _____ _____

Write the fraction in simplest form.

4 $\frac{4}{12}$ **5** $\frac{6}{10}$ **6** $\frac{3}{6}$

_____ _____ _____