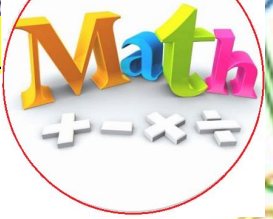


Name: \_\_\_\_\_

Section: \_\_\_\_\_



**WRITE YOUR NAME  
OR NO GRADE!!!**

### Homework

This week we will be finishing multiplication and begin with division.

**Homework is due on TUESDAY JANUARY 16**

### 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](mailto:natalie.roman@archimedean.org).

<input type="checkbox"/>	<u>Monday</u>	January 8	Finish Shogun's Sword Mystery (started in class)
<input type="checkbox"/>	<u>Tuesday</u>	January 9	Finish Shogun's Sword Mystery
<input type="checkbox"/>	<u>Wednesday</u>	January 10	Compare and Order Fractions
<input type="checkbox"/>	<u>Thursday</u>	January 11	Mixed-Up Sums
<input type="checkbox"/>	<u>Friday</u>	January 12	Add and Subtract Fractions

# Compare and Order Fractions

Write  $\frac{3}{8}$ ,  $\frac{1}{4}$ , and  $\frac{1}{2}$  in order from least to greatest.

**Step 1** Identify a common denominator. Multiples of 8:  $\textcircled{8}$ , 16, 24  
 Multiples of 4: 4,  $\textcircled{8}$ , 16  
 Multiples of 2: 2, 4, 6,  $\textcircled{8}$   
 Use 8 as a common denominator.

**Step 2** Use the common denominator to write equivalent fractions.

$$\frac{3}{8}$$

$$\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$$

$$\frac{1}{2} = \frac{1 \times 4}{2 \times 4} = \frac{4}{8}$$

**Step 3** Compare the numerators.  $2 < 3 < 4$

**Step 4** Order the fractions from least to greatest, using  $<$  or  $>$  symbols.  $\frac{2}{8} < \frac{3}{8} < \frac{4}{8}$

So,  $\frac{1}{4} < \frac{3}{8} < \frac{1}{2}$

## OR YOU CAN USE BENCHMARKS

Order the fractions by:  
 which one is closer to 0 (least)  
 which one is closer to 1 (greatest)  
 which one is closer to  $\frac{1}{2}$  (middle)

Write the fraction with the greatest value.

**1**  $\frac{2}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{6}$

\_\_\_\_\_

**2**  $\frac{3}{10}$ ,  $\frac{1}{2}$ ,  $\frac{2}{5}$

\_\_\_\_\_

**3**  $\frac{1}{8}$ ,  $\frac{5}{12}$ ,  $\frac{9}{10}$

\_\_\_\_\_

Write the fractions in order from least to greatest.

**4**  $\frac{9}{10}$ ,  $\frac{1}{2}$ ,  $\frac{4}{5}$

\_\_\_\_\_

**5**  $\frac{3}{4}$ ,  $\frac{7}{8}$ ,  $\frac{1}{2}$

\_\_\_\_\_

**6**  $\frac{2}{3}$ ,  $\frac{3}{4}$ ,  $\frac{5}{6}$

\_\_\_\_\_

## Mixed-Up Sums

Match each fraction on the left with an addition problem on the right.

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

$\frac{3}{8} + \frac{2}{8} + \frac{1}{8}$

**2**  $\frac{6}{10}$

$\frac{2}{10} + \frac{2}{10} + \frac{2}{10}$

**3**  $\frac{4}{8}$

$\frac{1}{10} + \frac{3}{10} + \frac{2}{10} + \frac{3}{10}$

**4**  $\frac{9}{10}$

$\frac{1}{8} + \frac{5}{8} + \frac{1}{8}$

**5**  $\frac{6}{8}$

$\frac{1}{10} + \frac{3}{10} + \frac{2}{10} + \frac{1}{10}$

**6**  $\frac{7}{10}$

$\frac{1}{8} + \frac{1}{8} + \frac{2}{8}$

# Add and Subtract Fractions

You can find and record the sums and the differences of fractions.

Add.  $\frac{2}{6} + \frac{4}{6}$

**Step 1** Model it.



**Step 2** Think: How many sixths are there in all?

There are 6 sixths.

$$6 \text{ sixths} = \frac{6}{6}$$

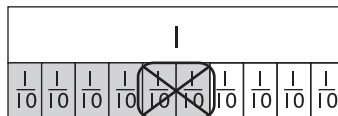
**Step 3** Record it.

Write the sum as an addition equation.

$$\frac{2}{6} + \frac{4}{6} = \frac{6}{6}$$

Subtract.  $\frac{6}{10} - \frac{2}{10}$

**Step 1** Model it.



**Step 2** Think: There are 6 tenths. I take away 2 tenths. How many tenths are left?

There are 4 tenths left.

$$4 \text{ tenths} = \frac{4}{10}$$

**Step 3** Record it.

Write the difference as a subtraction equation.

$$\frac{6}{10} - \frac{2}{10} = \frac{4}{10}$$

**Find the sum or difference.**

**1** 7 eighth-size parts – 4 eighth-size parts = \_\_\_\_\_

$$\frac{7}{8} - \frac{4}{8} = \underline{\hspace{2cm}}$$

**2**  $\frac{11}{12} - \frac{4}{12} = \underline{\hspace{2cm}}$  **3**  $\frac{2}{10} + \frac{2}{10} = \underline{\hspace{2cm}}$  **4**  $\frac{6}{8} - \frac{4}{8} = \underline{\hspace{2cm}}$

**5**  $\frac{2}{4} + \frac{2}{4} = \underline{\hspace{2cm}}$  **6**  $\frac{4}{5} - \frac{3}{5} = \underline{\hspace{2cm}}$  **7**  $\frac{1}{3} + \frac{2}{3} = \underline{\hspace{2cm}}$