

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

## **HOMWORK WEEK 13**

**SOLVE THE FOLLOWING PROBLEMS WITHOUT A CALCULATOR. YOU MUST SHOW YOUR WORK. IPS STRATEGY MUST BE USED ON ALL WORD PROBLEMS.**

***NO WORK = NO CREDIT.***

### **Homework – Monday**

1. Keon runs $\frac{5}{8}$ of a mile in $\frac{3}{4}$ of an hour. If he continues at this rate, how long will it take for Jeff to run the full mile?	2. Determine whether $\frac{15}{10}$ and $\frac{37.5}{25.1}$ are equivalent ratios. Show your work.
3. Solve for x.  $\frac{4}{10} = \frac{x}{35}$	4. $4x + 3(x - 5) = 51$

### **Homework- Tuesday**

1. Allela took 22 minutes to do 13 math problems. Jordan took 24 minutes to do 12 math problems. Which student did more problems per minute? How do you know?	2. Write the decimal equivalent of $\frac{54}{99}$ .
3. Lauren bikes $1\frac{1}{3}$ miles in $\frac{1}{10}$ hour. What is her rate of speed in miles per hour?	4. Solve for x.  $\frac{7.5}{12} = \frac{4.2}{x}$

### Homework - Wednesday

1. What is the value of r in the equation:

$$\frac{r+7}{4} = -19$$

2. Leah runs  $\frac{1}{4}$  of a mile in  $\frac{3}{4}$  of an hour. If she continues at this rate, how far can Leah run in a full hour?

3. Solve and graph on a number line.

$$\frac{3}{5}k < 5$$

4. Is this a proportional relationship? Explain.

dollars	pens
1	70
3	210
5	350

### Homework - Thursday

1. Solve the inequality:

$$7 - x < 18$$

2. In a long jump event, Jaxon jumped  $2\frac{1}{3}$  meters. In the same event, Kyle jumped  $1\frac{3}{4}$  meters. How much farther did Jaxon jump than Kyle?

3. You can get 640 calories from eating 5 bananas. How many calories can you get from eating 1 banana?

4. The formula for converting temperatures in degrees Celsius (C) to temperatures in Fahrenheit (F) is:

$$F = \frac{9}{5}C + 32$$

The temperature is  $32^{\circ}\text{F}$ . What is the temperature in degrees Celsius?