Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Number:\_\_\_\_\_\_\_\_\_

Math 8/8H

**Unit 1-4 Review HW – SHOW YOUR WORK.**

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| --- | --- |
| 1. Is 7 a rational number?

YES or NOProve it below. | 1. Change the following decimal into a fraction.

$$0.432432432432…$$ |
| 1. Is 0.344555666677777… a ration number?

YES or NOWhy? | 1. Change the following decimal into a fraction.

$$0.72$$ |
| 1. Convert $\frac{5}{6}$ into a decimal by hand.
 | 1. Put these numbers in order from least to greatest.

$$7.5 -7\frac{9}{10} \sqrt{48} -7 -\sqrt{50}$$\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ |
| 1. What are the four types of rational numbers?
 | 1. Put these numbers in order from least to greatest.

$$1.6 \frac{1}{5} \sqrt{16} -27 \sqrt{5}$$\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_ |
| 1. Simplify the following expression:

$$\left(\frac{p^{-3}∙w^{9}∙p^{5}}{w^{3}}\right)^{2}$$ | 1. A quarter has a mass of $5.67×10^{-3}$ kg and a penny has a mass of $2.5×10^{-3}$ kg. How many times bigger is the quarter than the penny?
 |
| 1. Simplify the following expression:

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 |
| 1. Solve the following equation:

 | 1. Solve the following equation:

$$x^{3}+7=34$$ |
| 1. Write the equation that goes with the following graph:

 | 1. I love parrots. I actually steal them. So, on average, when I’m in a room full of pirates, I can steal 1 parrot every 3 minutes. I had some pet parrots already too. After 12 minutes, I had 8 parrots total.
2. Make a table to go with my situation.

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1. Make an equation to go with my situation.
2. What does the y-intercept mean?
 |
| 1. Solve the equation.

 | 1. Solve the equation.

 |
| 1. Solve the equation.

 | 1. Solve the equation.

 |
| 1. For the function$ f\left(x\right)=2x^{2}-4$, find$ f(-3)$.
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