

Mixed Math Review

1. Compute the following.

- a. $-10 + -15 =$ b. $25 + -10 =$ c. $-15 - -10 =$ d. $-30 - 20 =$
- e. $-3 \times -9 =$ f. $8 \times -5 =$ g. $-42 \div 7 =$ h. $-36 \div -4 =$

2. Use the order of operations to evaluate each expression. Show all of your steps.

- a. $(4 + 8 \div 4) \cdot 4 - 2 =$ b. $50 \div 5 - 4 \times 3 =$

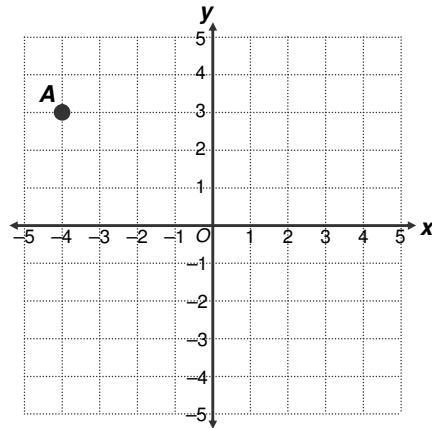
Order of Operations**P** – Parentheses**E** – Exponents**MD** – Multiply/Divide (from left to right)**AS** – Add/Subtract (from left to right)

3. Round the following to the nearest hundredth (two decimal places).

- a. 208.8649 b. 76.186011

4. Use the coordinate grid on the right to answer the following.

- a. What are the coordinates of point A?
- b. Plot the point B (4, 0).
- c. Plot the point C (2, -4).
- d. Graph the linear equation: $y = \frac{3}{2}x - 4$

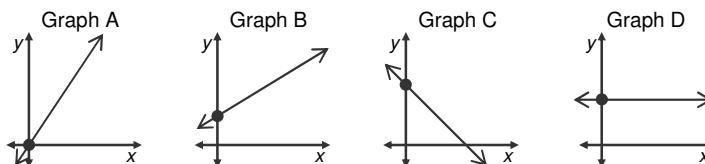


5. Justin has \$52 in his piggy bank. He plans to spend \$4 each week.

Let m be the amount of money in his piggy bank. Let w be the number of weeks.

- a. Write an equation for the situation.

b. Which of the graphs below best matches the equation? Explain how you know.



6. Answer the following fraction problems and reduce your answers. Show your work.

$$\begin{array}{r} \text{a. } \frac{7}{9} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } \frac{9}{10} \\ - \frac{3}{4} \\ \hline \end{array}$$

$$\text{c. } \frac{3}{4} \times \frac{2}{9} =$$

$$\text{d. } \frac{5}{12} \div \frac{1}{6} =$$

7. Compute the following. Show your work.

$$\begin{array}{r} \text{a. } 68 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 917 \\ \times 75 \\ \hline \end{array}$$

$$\text{c. } 5 \overline{) 3185}$$

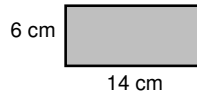
$$\begin{array}{r} \text{d. } 6.8 \\ + 14.2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 18.610 \\ - 4.033 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f. } 5.866 \\ \times 1.7 \\ \hline \end{array}$$

$$\text{g. } 1.2 \overline{) 6.48}$$

8. The rectangles below are similar. Find the value of x . Show how you know.



9. Solve for the unknown value. Show each step.

$$\text{a. } x - 25 = 8$$

$$\text{b. } 7x + 18 = -45$$

$$\text{c. } 6x - 18 = -54$$

$$\text{d. } \frac{2}{5}x - 27 = -9$$