## **Chapter 8 Practice Test**

## For #1 to #4, choose the correct answer.

- 1. What is the solution to  $\frac{1}{3} \frac{3}{2}x = -\frac{1}{6}$ ? A  $-\frac{1}{9}$ B  $\frac{1}{9}$ C  $\frac{3}{1}$ D  $\frac{1}{3}$
- 2. What is the solution to  $-\frac{5.2}{t} = -3.25$ ?
  - **A** 1.6 **B** -1.6
  - **C** 0.625 **D** -0.625
- 3. What is the solution to 0.45 0.3g = 0.85 + 0.2g?
  - **A** 0.8 **B** -0.8
  - **C** 1.25 **D** -1.25
- 4. Which equation does *not* have the solution y = -2?
  - **A**  $\frac{y}{4} + 1 = \frac{1}{2}$  **B**  $\frac{7}{8} - \frac{1}{y} = 1\frac{3}{8}$  **C**  $\frac{2y-1}{4} = \frac{5y-4}{8}$ **D**  $\frac{2}{3}y + \frac{3}{2} = -\frac{1}{12}y$

## Complete the statements in #5 and #6.

- 5. To solve a linear equation, isolate the \_\_\_\_\_.
- 6. For 2.43 = -0.38v, the solution rounded to the nearest hundredth is v =\_\_\_\_\_.

## **Short Answer**



Ch	eck:	Check:			
	Left Side	<b>Right Side</b>		Left Side	<b>Right Side</b>
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8. Nav pays a monthly fee of \$5.95 for her bank account. She also pays \$0.75 for each deposit or withdrawal. One month, the total fee for her account was \$12.70. How many deposits or withdrawals did she make that month? Let x = the number of deposits or withdrawals Nav made.

The number of deposits or withdrawals Nav made that month was \_\_\_\_\_.

9. Precipitation is moisture that falls as rain or snow.

There is a relationship between the depth of rain, r, and the depth of snow, s.

Equal quantities of precipitation result in the relationship  $\frac{r}{s} = 0.1$ .

a) 15.5 cm of snow falls in a storm. If it was a warm day, how much rain would that represent?

 $\frac{r}{s} = 0.1$ 

Sentence:

- b) 2.7 cm of rain falls. If it was a cold day, how much snow would that represent?
  - $\frac{r}{s} = 0.1$

Sentence:	:	



The value of *d* is \_\_\_\_\_.

**b)** What is the perimeter of each shape?

Square:

Pentagon: