

*This is your review guide for the Chapter 2 Quiz. These problems are from your notes, so look up the answers in your notes to make sure you did the review problems correctly ☺*

**Solve the equations. If you cannot solve, tell if that is because the equation is an identity or there is no solution.**

$$-6d = d + 4$$

$$2(c - 6) = 9c + 2$$

$$9 + 5n = 5n - 1$$

$$9 + 5x = 7x + 9 - 2x$$

$$\frac{2}{3}x - \frac{5}{8}x = 26$$

$$\frac{n}{4} + \frac{n}{2} = \frac{5}{8}$$

**Solve the story problems. You will get points on the quiz for using the table correctly!**

The length of one rectangle is 6 cm more than its width. The perimeter of the rectangle is 24 cm. What is the length of the rectangle?

The sum of three consecutive even integers is 72. Find the integers.

A group of campers left the campsite in a canoe. They traveled 10km/hr. Two hours later, another camper left the campsite in a motorboat. He traveled at a rate of 22km/hr. How long after the canoe left the campsite did the motorboat catch it? How long did the motorboat travel?

On my way to work, I average only 20 mph. On my drive home, I average 40 mph. If my total travel time was  $1\frac{1}{2}$  hours, how long does it take me to drive to work?

Sarah and John leave Perryville traveling in opposite directions on a straight road. Sarah drives 12 mph faster than John. After 2 hours they are 176 miles apart. Find Sarah's speed and John's speed.

**Solve the formulas for the given variable.**

$$y - 4 = 3x - 8 \text{ for } x.$$

$$m - hp = d \text{ for } p.$$

$$F = \frac{n}{4} + 37 \text{ for } n.$$

**Draw an evaluation block for  $(4 + 2) - \frac{3}{7} * 12$**

*Study until you can get them all right without looking at your notes for clues. Good luck!*