

NAME \_\_\_\_\_

HW # 3

Directions: Solve each equation. Check the equations that ask you to check.

$$1. \frac{3}{4}q = -24 \cdot \frac{4}{3}$$

$$q = -32$$

Check:

$$\frac{3}{4}q = -24$$

$$\frac{3}{4}(-32) = -24$$

$$-24 = -24$$

$$2. \frac{5}{8}n - 10 = 20$$

$$\frac{5}{8}n = 30$$

$$n = 48$$

$$3. -\frac{2}{3}x - 4 = 16$$

$$-\frac{2}{3}x = 20$$

$$x = -30$$

$$4. -3.7 = 4 + 2.2h$$

$$-7.7 = 2.2h$$

$$-3.5 = h$$

Check:

$$-3.7 = 4 + 2.2h$$

$$-3.7 = 4 + 2.2(-3.5)$$

$$-3.7 = 4 - 7.7$$

$$-3.7 = -3.7$$

$$5. -4p + 9 = 15$$

$$-4p = 6$$

$$p = -1.5$$

Check:

$$-4p + 9 = 15$$

$$-4(-1.5) + 9 = 15$$

$$6 + 9 = 15$$

$$15 = 15$$

$$6. -\frac{1}{3}b + 2 = -\frac{5}{2}$$

$$-\frac{1}{3}b = -\frac{9}{2}$$

$$b = +13.5$$

$$-\frac{5}{2} - \frac{4}{2} = -\frac{9}{2}$$

$$-\frac{9}{2} = -\frac{9}{2}$$

$$1.2 \overline{) 7.7}$$

$$22 \overline{) 27.0}$$

7. An amusement park charges \$20 to enter and \$4 per ride. You pay a total of \$36 by the time you leave the amusement park. How many rides did you go on? Write an equation that represents the situation described. Solve your equation and answer the question. Define the variable you choose to use.

X = # rides you went on

$$4x + 20 = 36$$

$$4x = 16$$

$$x = 4$$

You went on 4 rides