

**Warm up:**

1) A train is traveling at a speed of 87 miles per hour. How long will it take for the train to travel 1392 miles?

$$1392 = 87x$$

$$\frac{1392}{87} = \frac{87x}{87}$$

$$16 = x$$

$$16h$$

$$87 \overline{) 1392}$$

$$\underline{- 87 \phantom{00}} 522$$

$$\underline{- 522} 0$$

2) Brian has \$88 in his savings account. If he saves \$3.50 per week, how long will it take him to have \$200 in his account?

$$88 + 3.50x = 200$$

$$\underline{- 88} \quad \underline{- 88}$$

$$3.5x = 112$$

$$\frac{3.5x}{3.5} = \frac{112}{3.5}$$

$$x = 32$$

$$32 \text{ weeks}$$

$$3.5 \overline{) 112}$$

$$35 \overline{) 1120}$$

$$\underline{- 105 \phantom{00}} 70$$

$$\underline{- 70} 0$$

$$\begin{array}{r} 35 \\ \times 32 \\ \hline 70 \\ \phantom{0} \times 35 \\ \hline 105 \phantom{0} \end{array}$$

## HW Solutions

⤴ 4 spittles    \$3.50 →  $4 \cdot 3.50 = 14$

2 + wizzles

$$\underline{4(3.50)} + 2t = 19.50$$

$$\begin{array}{r} 14 + 2t = 19.50 \\ -14 \qquad \qquad -14 \\ \hline \end{array}$$

\$2.75

$$\begin{array}{r} 2t = 5.50 \\ \underline{2} \qquad \underline{2} \\ t = 2.75 \end{array}$$

$$\begin{array}{r} 2.75 \\ 2 \overline{) 5.50} \\ \underline{-4} \downarrow \\ 15 \\ \underline{-14} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

Q

$$\begin{array}{r} 248 + 30h = 572 \\ - 248 \phantom{+ 30h} \\ \hline \phantom{248 +} 30h = 324 \\ \phantom{248 +} \underline{30} \phantom{h} \phantom{=} \phantom{324} \\ h = 10.8 \end{array}$$
$$\begin{array}{r} 10.8 \\ 30 \overline{) 324.0} \\ \underline{-30} \phantom{0} \phantom{0} \\ 24 \phantom{0} \phantom{0} \\ \underline{-24} \phantom{0} \\ 0 \end{array}$$

$h = 10.8$

$10.8h$

$$\textcircled{4} \quad \begin{array}{r} 25 + 4.50m = 56.50 \\ - 25 \qquad \qquad \qquad - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 4.5 \overline{) 31.5} \\ \underline{45} \phantom{0} \\ 315 \\ \underline{315} \\ 0 \end{array}$$

$$\frac{4.50m = 31.50}{4.50} \quad \frac{31.50}{4.50}$$

$$\begin{array}{r} 45 \overline{) 315} \\ \underline{315} \\ 0 \end{array}$$

$$\begin{array}{r} 345 \\ \times 3 \\ \hline 315 \end{array}$$

$$m = 7$$

7 movie channels

$$\begin{array}{r} 2s + 28 = 152 \\ -28 \quad -28 \\ \hline 2s = 124 \\ \underline{\quad} \\ s = 62 \\ \text{\$62} \end{array}$$

1) Jeff bought some candy bars for \$2 each and a gallon of milk for \$4. How many candy bars did he buy if he spent a total of \$82?

2) On a farm, there are 20 fewer cows than twice the number of pigs. If there are 50 cows, how many pigs are there?

3) Ellie wants to buy a Zorb for \$5,000. She has \$604 saved up and earns \$628 per week. How many weeks will she need to work until she can buy the Zorb?

4) A cell phone company charges a monthly rate of \$12.15 and \$0.25 per minute to make calls. Craig's bill this month is \$21.90. How many minutes did he use?

5) A tree grows 2 inches each week. If the tree is currently 40 inches tall, how long will it take for the tree to reach a height of 30 feet?

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Four less than half of a number is 17. Find the number.

Two hundred twenty-five students play a team sport at Lincoln High School. These students represent  $\frac{3}{8}$  of the total student population. How many students attend the school?

One hundred twenty seniors are on the honor roll. This represents one third of the senior class. How many seniors are there?

