

HW: Worksheet

**Warm up:**

Tom has five dollars less than six times as much as Peter. If Tom has \$253, how much money does Peter have?

$$\begin{array}{r}
 6p - 5 = 253 \\
 + 5 \quad + 5 \\
 \hline
 6p = 258 \\
 \frac{6p}{6} = \frac{258}{6} \\
 p = 43
 \end{array}$$

Peter has \$43

$$\begin{array}{r}
 43 \\
 6 \overline{) 258} \\
 \underline{-24} \phantom{0} \\
 18 \\
 \underline{-18} \\
 0
 \end{array}$$

A boat is traveling at a speed of 32 mi/h. How long will it take for the boat to travel 544 miles?

$$\frac{32t = 544}{32 \quad 32}$$
$$t = 17$$

$$32 \overline{) 544}$$
$$\begin{array}{r} 17 \\ \underline{-32} \phantom{0} \\ 224 \\ \underline{-224} \\ 0 \end{array}$$

$$17h$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array} \quad \begin{array}{r} 32 \\ \times 7 \\ \hline 224 \end{array}$$

Ron wants to buy a computer for \$850 and has \$114 saved up. If he makes \$8/hr, how long will it take him to save up enough money for the computer?

$$\begin{array}{r} 850 \\ -114 \\ \hline 736 \end{array} = 114 + 8h$$

$$\begin{array}{r} 736 = 8h \\ \hline 8 \\ \hline 92 = h \end{array}$$

$$\textcircled{92h}$$

$$\begin{array}{r} 92 \\ 8 \overline{)736} \\ \underline{-72} \phantom{0} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

Best Buy has printers on sale for \$93 and packages of paper on sale for \$3. If Brianna has \$156 and buys a printer, how many packages of paper can she buy?

$$\begin{array}{r} 93 + 3x = 156 \\ -93 \quad -93 \\ \hline \end{array}$$

$$x = 21 \quad \frac{3x}{3} = \frac{63}{3}$$

21 packages  
of  
paper

1) 331 students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?

2) Aliyah had \$24 to spend on seven pencils. After buying them she had \$10. How much did each pencil cost?

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

4) 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?

5) 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?

6) 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?

1) 331 students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?

$$6x + 7 = 331$$

54 students

2) Aliyah had \$24 to spend on seven pencils. After buying them she had \$10. How much did each pencil cost?

$$\begin{array}{r} 24 - 7p = 10 \\ -24 \quad \quad -24 \\ \hline \end{array}$$

$$\begin{array}{r} -7p = -14 \\ \hline -7 \quad \quad -7 \\ \hline \end{array}$$

$$p = 2$$

$\$2$