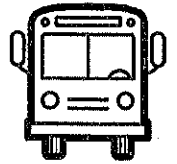


Extra Practice as needed! **REMEMBER: "X" is what we don't know.**

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?



$x = \#$  of students in each bus.

$$\begin{array}{r} 331 = 6x + 7 \\ -7 \end{array}$$

$$54 = x$$

$$324 = 6x \div 6$$

54 students per bus

2) Aliyah had \$24 to spend on seven fancy pencils. After buying them she had \$10. How much did each pencil cost?  $x = \text{cost of a pencil}$



Created by Filbert from Khan Project

$$\begin{array}{r} 24 = 7x + 10 \\ -10 \end{array}$$

$$14 = 7x$$

$$\frac{14}{7} = \frac{7x}{7} \rightarrow x = 2$$

$$x = 2$$

Each pencil costs \$2

3) The Math Club made some pies to sell at a basketball game to raise money for the new math books. The cafeteria contributed four pies to the sale. Each pie was then cut into five pieces and sold. There were a total of 60 pieces to sell. How many pies did the club make?  $x = \#$  of club pies



Created by Jashodhinds from Khan Project

$$\begin{array}{r} 5x + 20 = 60 \\ -20 \end{array}$$

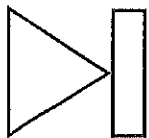
$$\frac{5x}{5} = \frac{40}{5}$$

$$\begin{array}{r} 5(x + 4) = 60 \\ \div 5 \end{array}$$

$$x + 4 = 12$$

The club made 8 pies

4) The sum of three consecutive even numbers is 48. What are the smallest of these numbers? (What does *consecutive* mean?)  $x = \text{smallest \#}$



Created by Mike Vondra from Khan Project

$$x + x + 2 + x + 4 = 48$$

$$\begin{array}{r} 3x + 6 = 48 \\ -6 \end{array}$$

$$\frac{3x}{3} = \frac{42}{3}$$

$$x = 14$$

14 is the smallest

5) Kim rented a bike from Bizzy Bikes LLC. It cost \$20 plus \$8 per hour. If Kim paid \$52, then she rented the bike for how many hours?  $x = \# \text{ of hours}$

$$\begin{array}{r}
 20 + 8x = 52 \\
 -20 \quad -20 \\
 \hline
 8x = 32 \rightarrow x = 4 \\
 \frac{8x}{8} = \frac{32}{8}
 \end{array}$$

Kim rented for 4 hours.



Created by Paige Wilson from Noun Project

6) Carlos had \$20 to spend on six burgers. After buying them he had \$2. How much did each burger cost?  $x = \text{cost of burger}$

$$\begin{array}{r}
 20 = 6x + 2 \\
 -2 \quad -2 \\
 \hline
 18 = 6x \\
 \frac{18}{6} = \frac{6x}{6} \rightarrow 3 = x
 \end{array}$$

Each burger costs \$3

7) How old is Mary J Blige if she was 53 years old five years ago?

$x = \text{Mary J's age}$

$$\begin{array}{r}
 x - 5 = 53 \\
 +5 \quad +5 \\
 \hline
 x = 58
 \end{array}$$

8) For a field trip 11 students rode in cars and the rest filled eight buses. How many students were in each bus if 315 students?  $x = \# \text{ of students on a bus}$

$$\begin{array}{r}
 11 + 8x = 315 \\
 -11 \quad -11 \\
 \hline
 8x = 304 \\
 \frac{8x}{8} = \frac{304}{8} \\
 x = 38
 \end{array}$$

38 students per bus

