SSR

Read at a Level 0 until 9:15

Dec 3-10:05 PM

Opener

1. Khalil's monthly salary is $3,250 plus he earns a 1.4% commission on his sales for the month. Khalil's sales for July were $51,000. What was his total earning for July?

$.\% \times Sales = Commis$

$.014 \times 51000 = 714$

$714 + 3250 = \$3964$

Commis

2. Three friends have dinner at a restaurant. The total bill for the dinner is $41. The friends want to leave a 15% tip and they want to divide the tip evenly among themselves. What is each friend's share of the tip?

$\dfrac{.\% \times bill}{3}$

$\dfrac{0.15 \times 41 = 6.15}{3}$ tip for the total

$= \$2.05$ for each

3. The manager of a sporting goods store raises the price of a basketball from $16 to $18. What is the percent increase?

$.\% \times op = np$

$.\% \times 16 = 18$

$\div 16 \qquad \div 16$

$.\% = 1.13$

113%

$13\% \uparrow$

Jun 17-7:00 PM

1

Learning Target

I can set up and solve multi-step equations for real world problems.

Jun 17-7:02 PM

Equation Applications: Word Problems

When trying to set up an equation for a word problem, you must first define your _____. You can do this by finding what the question is asking for (usually in the last few words near the question mark).

Examples – WRITE AND SOLVE an equation for the scenario:

1. Jow buys 9 CDs for the same price, and also a cassette tape for $9.45. His total bill was $118.89. What was the cost of one CD?

C : cost of CD

$$9c + 9.45 = 118.89$$
$$-9.45 \qquad -9.45$$

$$\frac{9c}{9} = \frac{109.44}{9}$$

$$\boxed{c = 12.16}$$

Jan 17-11:38 AM

2. Andrew buys 4 books for the same price and also a video for $18. His total bill was $110. What was the cost of a book?

b : book

DIU
×4 ÷4
+18 −18

$$4b + 18 = 110$$
$$-18 \quad -18$$
$$\frac{4b}{4} = \frac{92}{4}$$

$$b = 23$$

3. A shoebox with a pair of shoes in it weighs 3.9 Kg. The box weighs 0.8 Kg when empty. What is the weight of a single shoe?

s : shoe

DIU
×2 ÷2
+0.8 −0.8

$$2s + 0.8 = 3.9$$
$$-0.8 \quad -0.8$$
$$\frac{2s}{2} = \frac{3.1}{2}$$

$$S = 1.55 \text{ kg}$$

4. Ann has $300 to spend. She gets a game system for $85 and games cost $12 each. How many games can she buy?

g : games

DIU
×12 ÷12
+85 −85

$$85 + 12g = 300$$
$$-85 \quad -85$$
$$\frac{12g}{12} = \frac{215}{12}$$
$$g = 17.92$$

17 games

5. A crate filled with 20 cartons of Gatorade weighs 11.45 Kg. The crate, when empty, weighs 5.6 Kg. How many Kg does each carton of Gatorade weigh?

G :

DIU
×20 ÷20
+5.6 −5.6

$$20G + 5.6 = 11.45$$
$$-5.6 \quad -5.60$$
$$\frac{20G}{20} = \frac{5.85}{20}$$

$$G = .29 \text{ kg}$$

6. Jordan purchases 8 basketballs for the same price and also a backboard and rim for $115. If his total bill is $295, how much does one basketball cost?

b : basketball

DIU
×8 ÷8
+115 −115

$$8b + 115 = 295$$
$$-115 \quad -115$$
$$\frac{8b}{8} = \frac{180}{8}$$

$$b = 22.50$$

TABLE CHALLENGE

Jun 17-7:08 PM

Lilly buys a few cassette tapes from the clearance bin marked "$2.50 each". She also buys a brand new CD for $15.99. Her total was $43.49. How many cassette tapes did she purchase?

$$2.50c + 15.99 = 43.49$$

$$-15.99 \quad 15.99$$

$$27.50 = 2.50$$

$$c = 11$$

Jan 17-11:53 AM

Jed buys calculators for his entire class of 25 students. He also buys a yard stick for $8.95. If the total bill was $320.20, how much did each calculator cost?

C: Caculators

$$25c + 8.95 = 320.20$$

$$C = 12.45$$

Jan 17-11:57 AM

A bin of 20 playground balls weighs 153 pounds. The bin, when empty, weighs just 4.8 pounds. How much does each ball weigh?

$$20b + 4.8 = 153$$
$$ -4.8 \quad -4.8$$
$$b = 7.41 \qquad 148.2$$

Jan 17-12:00 PM

Kip buys 8 bouquets of flowers (for the same price) and a shovel for $14.65. If his total bill was $186.65, how much was each bouquet of flowers?

$f = flowers$ $8f + 14.65 = 186.65$

$f = 21.50$

Jan 17-12:02 PM

Mack wants to purchase a new stereo system for his car. The system costs $1150. Mack has $420 saved already, and plans on mowing lawns to earn the rest. If Mack gets paid $25 for every lawn he mows, how many lawns must he mow to earn enough money for the stereo?

$25L + 420 = 1150$
$\quad\quad -420 \quad -420$
$\quad\quad\quad\quad 730 \div 25$

$L = 29.2$

Round up

(30)

Jan 17-12:04 PM

A storage crate containing 14 bicycles weighs 600 pounds. The storage crate, when empty, weighs 47 pounds. How much does each bicycle weigh (assuming they each weigh the same)?

$b = $ bicycles

$$14b + 47 = 600$$
$$-47 \quad -47$$
$$\frac{553}{14} = 39.50$$

Jan 17-12:07 PM

Summary

Table Discussion: What should you identify first in a problem to help you set up the equation?

Jun 17-7:02 PM

Homework Options

1 - 12

Choose 8

13 - 15   21 *

Choose 2

16 - 20

Choose 3

Jan 27-10:28 AM