What you will learn about: Solve Formula for Specific Variable



× 3.5 360 360

Jamal rides his bike at a uniform rate of 12 miles per hour for $3\frac{1}{2}$ hours. What distance has he traveled?

$$d = rt$$

$$-(12 mph)(3.5 hr)$$
 $d = 42 m$;
Rey is planning to drive from his house in San Diego to visit

Rey is planning to drive from his house in San Diego to visit his grandmother in Sacramento, a distance of 520 miles. If he can drive at a steady rate of 65 miles her hour, how many hours will the trip take?

$$t = \frac{520}{65}$$
= 8 hrs.

Sarah is 168 miles from Chicago. If she needs to be in Chicago in 3 hours, at what rate does she need to drive?

Solve the formula d=rt, for t When d = 520 and r = 65 in general

$$t = \frac{d}{r} = \frac{520}{65}$$

A = A : 12 A : 2
$2(A) = \left(\frac{1}{2}bh\right)^{2}$ $2A = bh$ $b = \frac{24}{h}$
I=Prt rt
P= I

Solve the formula d = rt, for r When d = 180 and t = 4 in general r = 45 mi/hr Solve the formula $A = \frac{1}{2}bh$ for hWhen A = 90 and b = 15in general $h = \frac{2(90)}{15} = \frac{180}{15}$ Solve the formula $A = \frac{1}{2}bh$ for bWhen A = 62 and h = 31 in general $b = \frac{2A}{1} = \frac{2(62)}{31}$ Solve the formula I = Prt to find the principle, PWhen I = \$5,600, r = 4%, t = 7 years $P = \frac{1}{rt} \frac{5600}{(.04)(7)} = \frac{5600}{.28}$ P=20,000

Solve the formula
$$I = Prt$$
 to find the principle, P
When $I = \$2,160, r = 6\%, t = 3$ years In General

$$P = \frac{I}{rt} = \frac{2160}{(.06)(3)} = \frac{2160}{(.18)}$$

$$P = 12,000$$

Solve the formula
$$3x + 2y = 18$$
 for y :

When
$$x = 4$$
 in general

$$3x+2y=18$$

$$-3x$$

$$2y=18-3x$$

$$y=\frac{18-3x}{2}$$

$$= 9-\frac{3}{2}x$$
Solve the formula $3x + 4y = 10$ for y :

When $x = \frac{14}{2}$ in general

$$3x + 4y = 10$$

$$4y = 10 - 3x$$

$$4y = \frac{10 - 3x}{4}$$

$$4y = \frac{10 - 3x}{4}$$

$$4y = \frac{10 - 14}{4} = \frac{-4}{4} = -\frac{10 - 14}{4}$$

Solve the formula P = a + b + c for a