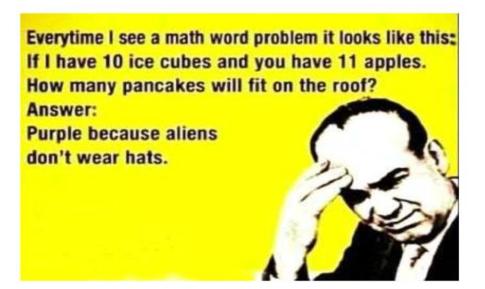
Word Problems



$$24(2) = 24 + 2x$$

$$\frac{24}{2} = x$$

$$x = 13 \frac{kn}{hc}$$

Dividing a number by a number gives the same result as dividing 12 by 2 less than the number.

Find the number.
$$\rightarrow \times$$

$$\frac{1}{\sqrt{\frac{20}{x^2}}} = \frac{12}{\frac{x-2}{x}}$$

$$NPV \Rightarrow X \neq 0,2$$

$$50(x-3) = 13X$$

$$20 \times - 12 \times = 40$$

$$f_{X} = 40$$

 $f_{X} = 40 = 5$

Dividing 108 by one more than a number gives the same result as dividing 72 by three less than the number.

What is the number? \times $\frac{108}{X+1} = \frac{72}{X-3}$ $\frac{108(x-3) = 72(X+1)}{X+1}$ $\frac{108(x-3) = 72(X+1)}{108(x-3)4} = \frac{72}{72} \times \frac{108}{72}$ $\frac{108(x-3) = 72(X+1)}{364} = \frac{72}{72} \times \frac{108}{72}$ $\frac{108}{72} = \frac{108}{72} \times \frac{108}{72}$ $\frac{108}{72} = \frac{108$

Garrion drove 404km from Edmonton to Banff in the same length of time as Rylan took to drive 364km from Edmonton to Jasper. Garrion drove 10km/hr faster than Rylan.

At what speed did Rylan drive? ightharpoonup X

1	V	d	Ł
Garion	X+10	404	404 X+10
Rylan	X	364	364 X

$$\frac{d = vt}{t_6 = t_R}$$

$$\frac{d}{t_6} = \frac{d}{v}$$

$$(x+y)(x) \frac{404}{x+10} = \frac{364}{x} (x+10)$$

$$40x = 3640$$

 $x = \frac{3640}{40}$
 $= 91 \frac{kh}{hr}$

Two friends share a paper route. Hailey can deliver the papers in 40mins. Mizuki can deliver the same route in 50min.

How long, to the nearest minute, does the paper route take if they work together?

they work together?					
. —	tine	(1 min)			
-> Hailey	40	40	1 (t)		
Mizuki	50	50	\(\frac{1}{50}\)		
together	(t)	1	$\frac{(1)t}{t}=1$		
$\frac{1}{100} \frac{100}{100} = \frac{100}{100}$ $\frac{1}{100} \frac{1}{100} = \frac{1}{100}$ $\frac{1}{100} = \frac{1}{100}$					
5t + 4t = 200					
1t = 200					
$t = \frac{200}{9} $ $\chi = 22$ mins.					
•					

HW: pg 349 #12,14,16,17