SOLVING ONE STEP EQUATIONS - A

ANSWERS - PAGE 1

YOU ARE TRYING TO GET THE NUMBERS AND VARIABLES ON OPPOSITE SIDES OF THE EQUAL SIGN. IF WE MOVE THE 4 ALL THE NUMBERS WILL BE ON THE RIGHT SIDE. DO YOU SEE HOW THE 5 AND t ARE ON THE SAME SIDE OF THE EQUAL SIGN? IF WE MOVE THE 5 THE NUMBERS WILL BE ON THE LEFT AND t WILL BE ON THE RIGHT.

1. $r \div 4 = 8$ $x4 \quad x4$ $r \div 1 = 32$ r = 32

WHEN YOU WANT TO CANCEL A NUMBER OUT OR MOVE IT, USE ITS OPPOSITE OPERATION. MULTIPLICATION AND DIVISION ARE OPPOSITES.

CHANGE r TO 32 AND SEE IF THE ANSWER MAKES SENSE:

CHANGE t TO 6 AND SEE IF THE ANSWER MAKES SENSE:

$$30 = 5 \times 6$$

SOLVE EACH EQUATION.

$$d \div 8 = 12$$

$$^{4.}$$
 52 = h x 4

$$d = 96$$

$$13 = h$$

$$42 = e$$

6.
$$q \times 5 = 75$$

^{7.}
$$y \div 9 = 18$$

8.
$$51 = 3 \times k$$

$$q = 15$$

$$y = 162$$

$$17 = k$$

9.
$$24 = u \div 8$$

$$^{10.}$$
 7 x $g = 217$

^{11.}
$$j \div 5 = 20$$

$$192 = u$$

$$g = 3$$

$$j = 100$$

Another way of showing multiplication and division: $6 \times d = 6d$ Or $f \div 5 = \frac{f}{5}$

$$\frac{w}{7} = 6$$

$$^{13.}$$
 $3g = 27$

14.
$$2 = \frac{v}{10}$$

$$^{15.}$$
 56 = 8 p

$$W = 42$$

$$g = 9$$

$$20 = v$$

$$7 = q$$

$$^{16.}$$
 9 $y = 117$

$$\frac{b}{6} = 12$$

$$^{18.}$$
 45 = 5q

19.
$$45 = \frac{n}{5}$$

$$y = 13$$

$$b = 72$$

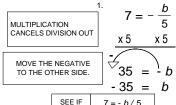
$$9 = q$$

$$225 = n$$

SOLVING ONE STEP EQUATIONS - B

ANSWERS - PAGE 2

YOU CAN **NOT** HAVE A NEGATIVE NEXT TO THE VARIABLE. YOU HAVE TO MOVE IT.



SEE IF 7 = - b / 5
YOUR 7 = - (- 35) / 5
MAKES 7 = + 35 / 5
SENSE. 7 = 7

		2.	- 8 <i>k</i> = 96			
	DIVISION					
	MULTIPLICATION OUT			÷8	÷	8
	MOVE THE NEGATIVE TO THE OTHER SIDE.			$\frac{1}{k}$	=	- 7 12
k = -12						
	SEE IF YOUR ANSWER -			- 8k = 96 - 8 (- 12) = 96		

MAKES

SENSE.

SOLVE EACH EQUATION.

$$8 = -\frac{d}{4}$$

$$-13t = 208$$

6.
$$-\frac{m}{7} = 7$$

+96 = 96

$$-32 = d$$

$$t = -16$$

$$-21 = y$$

$$m = -49$$

$$-2w = 64$$

$$\frac{s}{6} = 18$$

9.
$$10 = -\frac{r}{2}$$

$$-\frac{h}{11} = 22$$

$$w = -32$$

$$s = 108$$

$$-20 = r$$

$$h = -242$$

$$^{12.}$$
 3h = 72

$$5 = -5u$$

$$40 = \frac{f}{8}$$

$$3 = d$$

$$h = 24$$

$$-1 = u$$

$$320 = f$$

$$\frac{x}{5} = 7$$

$$40 = 8k$$

$$-15y = 105$$

$$x = 35$$

$$5 = k$$

$$72 = c$$

$$y = -7$$

$$-4k = -60$$

$$33 = -\frac{n}{3}$$

$$-\frac{b}{7} = -1$$

$$186 = 6k$$

$$k = 15$$

$$-99 = n$$

$$b = 133$$

$$31 = k$$