

d) Is $m = \frac{1}{2}$ a solution to the equation $6m - 8 = -5$?

$$6\left(\frac{1}{2}\right) - 8 = -5$$

$$3 - 8 = -5$$

$$-5 = -5 \checkmark \text{ TRUE}$$

? Is there another value for "m" that will make the equation true? No!

* Review Problem 311 pg. 54

→ Create an equation $l = 2.4w$
 $54 = 2.4w$

→ Can you solve for w? $\frac{54}{2.4} = \frac{2.4w}{2.4}$

$$\begin{array}{r} 22.5 \\ 2.4 \overline{) 54.0} \\ \underline{48} \\ 6.0 \\ \underline{48} \\ 12.0 \\ \underline{12.0} \\ 0 \end{array}$$

$$w = 22.5 \text{ in.}$$

If you do not know how to solve for "w", then substitute each MC value for "w" & see which solution is TRUE.

pg. 54 Got it? #3

$$\begin{array}{r} l = 14h \\ 49 = 14(h) \\ \hline 14 \quad 14 \end{array}$$

$$h = 3.5 \text{ cm}$$

* Review Problem 5

→ can you solve without a table or do you need to "test" values with a table?

either way is OK

1.8 pg. 56 #7-39 odd,
45-59 odd,
63 & 69

(7) False $85 + (-10) = 95$
 $75 \neq 95$

(9) True $29 - 34 = -5$
 $-5 = -5$

(11) True $4(-4) \div (-8)(6) = -3 + 5(3)$
 $-16 \div (-8)(6) = -3 + 15$
 $2(6) = 12$
 $12 = 12$

(13) Open $4a - 3b = 21$ * open b/c variables
* "a" could = 0
* "b" could = -7

(15) Open $5x + 7 = 17$ * open b/c variable
* "x" could = 2

(17) $5(-3) + 1 = 16$
 $-15 + 1 = 16$
 $-14 = 16$
False

(19) $2 = 10 - 4y$
 $2 = 10 - 4(2)$
 $2 = 10 - 8$
 $2 = 2$
True

$$(21) -6b + 5 = 1$$

$$-6\left(\frac{1}{2}\right) + 5 = 1$$

$$-3 + 5 = 1$$

$$2 = 1$$

False

$$(23) 14 = \frac{1}{3}x + 5$$

$$14 = \frac{1}{3}(27) + 5$$

$$14 = \left(\frac{1}{3} \cdot \frac{27}{1}\right) + 5$$

$$14 = 9 + 5$$

$$14 = 14$$

True

$$(25) \underline{4x + 3 = 8}$$

$$(27) \underline{115d = 690}$$

$$(29) \underline{x = 13}$$

$$(31) \underline{d = 6}$$

$$(33) \underline{m = 12}$$

$$(35) \underline{t = 6}$$

$$(37) \underline{c = 2}$$

$$(39) 5x + 3 = 23$$

$$\begin{array}{r} -3 \quad -3 \\ \hline \end{array}$$

$$5x = 20$$

$$\begin{array}{r} 5 \\ \hline \end{array}$$

$$\underline{x = 4}$$

*Remember to check.

$$(45) \frac{1}{2}x - 5 = -1$$

$$\begin{array}{r} +5 \quad +5 \\ \hline \end{array}$$

$$2 \left(\frac{1}{2}x = 4 \right)$$

$$\underline{x = 8}$$

$$(47) 3.3 = 1.5 - 0.4y$$

$$\begin{array}{r} -1.5 \quad -1.5 \\ \hline \end{array}$$

$$1.8 = -0.4y$$

$$\frac{18}{10} = -\frac{4}{10}y$$

$$\frac{18}{10} = -\frac{2}{5}y$$

$$\left(\frac{9}{5} = -\frac{2}{5}y \right) \cdot \frac{-5}{2}$$

$$-\frac{9}{2} = y$$

-9

2 is between

the integers -

-4 & -5

(49)

$$22 = 0.3x + 15$$

$$\begin{array}{r} -15 \\ -15 \end{array}$$

$$7 = 0.3x$$

$$\left(7 = \frac{3}{10}x\right) \frac{10}{3}$$

$$7 \cdot \frac{10}{3} = x$$

$$\frac{70}{3} = x$$

$$23\frac{1}{3}$$

1981
+ 23 years

2004

(51)

An equation has an equal sign. An expression does not have an equal side, or a solution.

(53)

$$x + 4 = -2$$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$x = -6$$

(55)

$$10.5 = 3n - 1$$

$$\begin{array}{r} +1 \\ +1 \end{array}$$

$$11\frac{1}{2} = 3n$$

$$\left(\frac{23}{2} = 3n\right) \frac{1}{3}$$

$$\frac{1}{3} \cdot \frac{23}{2} = n$$

$$\frac{23}{6} = n$$

"n" is between 3 & 4

$$(57) \quad 5a - 4 = -16$$

$$+4 \quad +4$$

$$\frac{5a}{5} = \frac{-12}{5}$$

$$a = \frac{-12}{5}$$

"a" is between -2 & -3

$$(59) \quad 1 = -\frac{1}{4}n + 1$$

$$\begin{matrix} -1 & & -1 \\ (0 = -\frac{1}{4}n) & -4 \end{matrix}$$

$$0 = n$$

(63)

$$25 + 0.25p = C$$

$$25 + 0.25p = 55$$

$$-25$$

$$-25$$

$$4 \left(\frac{1}{4}p = 30 \right)$$

$$p = 120 \text{ lbs.}$$

(66)

out of the 10 hours, they only have 8 hours to install

$$(10 \text{ hours} - 15 \text{ min} - 60 \text{ min} - 45 \text{ min} = 8 \text{ hours})$$

$$C = 32h + 272$$

$$550 = 32(8) + 272$$

$$550 = 528$$

* Need more time