0.2 Evaluate Equations

PRACTICE

Directions: Use the following equation to solve: y = -2x + 7

1) Find y, when x = -5.

2) Find x, when y = -21

$$-21 = -2x + 7$$

$$-28 = -2x$$

$$-28 = -2x$$

$$14 = x$$

Directions: Use the following equation to solve: $n = \frac{m}{5} + 6$

3) Find m, when n = -2.

-2=8+6
-6 -6
5(-8)-(3)5
-40=m

en equation.

Direction	is: comp	iete each tabi	e using the give
5) $\frac{x-5}{2} = \frac{1}{2}$	y	-9-5-4	((x-2)=-C
×	У	-19 -	X-5=-
-9	4	7 7	} - X = -?
-7	-6	-7=4	1,
10	محالم	10-5 =1	(1×2) 2-2
-37	-21	5 =1	X-5=-
		<u> </u>	×= -

6) 2e - 3f = 24

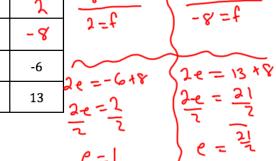
6) 2 <i>e</i> – 3	f = 24	2137-36=21
æ	£	6-38-20
3	-	-c -c
0	-9	134 = 13
3	-6	F=4
12	0	2e -3(-1) = 24 2e +18 = 24
_	_	-18 -18

- 2e-360 =24
- e=12

7) $2x - 3$	= y	2(-4)-3-7	> 2x-3=-C
¥	Ŋ.	-8-3=4	1-1
-4	~11	-11 =4) 2×====================================
-2	-6) X =
10	け		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3/2	0	2(16)-3=4	123
		12 =4) = 3
1			/ \(\sigma = \)

8) 2e = f + 8

e	ŧ	
5	7	
0	18	
1	-6	,
21		J



Directions: For each situation come up with an equation, define your variables and answer the questions. SHOW WORK.

- 9) Mr. Bean loves collecting soda cans. He currently has 50 soda cans and gets 12 more every week.
- a) What's an equation for this situation? Define your variables.

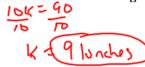
b) How many soda cans will he have after 10 more weeks?

c) How many weeks will it take Mr. Bean to have 150 cans?

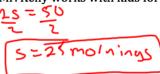


- 10) Mr. Sullivan two thank you's from students when he is available in the morning. Mr. Kelly gets ten thank you's every time he helps students at lunch. The hope to get 100 THANK YOU'S from students combined.
- a) What's an equation for this situation? Define your variables.

b) How many lunches will Mr. Kelly have to work if Mr. Sullivan works 5 mornings?



c) How many mornings will Mr. Sullivan have to work if Mr. Kelly works with kids for 5 lunches?



- 11) The amount of money Mr. Brust made this summer was equal to the \$55 he started with and the \$15 for every lawn he mowed while staying at his parents' house.
- a) What's an equation for this situation? Define Your variables.

b) How many lawns does he need to move if he wants to make \$800 so he can finally buy himself an iPhone?



c) How much money does he have if he mowed 13 yards this summer?