

## Midterm Review 2018 - Unit 2

Solve each equation.

1)  $x + 7 = 20$   
 $-7 \quad -7$

$$x = 13$$

2)  $x - 15 = -28$   
 $+15 \quad +15$

$$x = -13$$

3)  $-38 = n - 18$   
 $+18 \quad +18$

$$-20 = n$$

4)  $-17 = 3 + x$   
 $-3 \quad -3$

$$-20 = x$$

5)  $-10 + x = -11$   
 $+10 \quad +10$

$$x = -1$$

6)  $20 = n + 9$   
 $-9 \quad -9$

$$11 = n$$

7)  $7 = \frac{n}{18}$   
 $18 \cdot 18$

$$126 = n$$

8)  $\frac{b}{15} = -16$   
 $15 \cdot 15$

$$b = -240$$

$$9) \frac{n}{7} = 13$$

$$n = 91$$

$$10) \frac{-38}{19} = \frac{19p}{19}$$

$$-2 = p$$

$$11) -15 = \frac{p}{10}$$

$$-150 = p$$

$$12) -6 = \frac{x}{6}$$

$$-36 = x$$

$$13) 25 = -2x + 9$$

$$\frac{16}{-2} = \frac{-2x}{-2}$$

$$-8 = x$$

$$14) 2n + 4 = -34$$

$$\frac{2n}{2} = \frac{-38}{2}$$

$$n = -19$$

$$15) \frac{-8 + v}{12} = -2$$

$$-8 + v = -24$$

$$v = -16$$

$$16) -1 = \frac{p-7}{16}$$

$$-16 = p - 7$$

$$-9 = p$$

$$17) -9(9 + n) = -153$$

$$-81 - 9n = -153$$

$$\frac{-9n}{-9} = \frac{-72}{-9}$$

$$n = 8$$

$$18) -7 = 1 + \frac{k}{2}$$

$$-8 = \frac{k}{2}$$

$$-16 = k$$



- 27) Diapers cost \$6 / package. How many packages did Gabriella buy if she spent \$54?

$$\begin{array}{r} 6 * p = 54 \\ \hline p = 9 \end{array}$$

- 28) Brenda and nine of her friends went out to eat. They decided to split the bill evenly. Each person paid \$11. What was the total bill?

$$\begin{array}{r} 9 * \frac{x}{9} = 11 * 9 \\ \hline x = 99 \end{array}$$

- 29) Lisa and her best friend found some money in an envelope. They split the money evenly, each getting \$21.96. How much money did they find?

$$\begin{array}{r} 2 * \frac{x}{2} = 21.96 * 2 \\ \hline x = \$43.92 \end{array}$$

- 30) At a restaurant, Paul and his four friends decided to divide the bill evenly. If each person paid \$13.93, then what was the total bill?

$$\begin{array}{r} 4 * \frac{x}{4} = 13.93 * 4 \\ \hline x = \$55.72 \end{array}$$

- 31) Jose won 43 super bouncy balls playing the bean bag toss at the county fair. At school he gave two to every student in his math class. He only has 3 remaining. How many students are in his class?

$$\begin{array}{r} 3 = 43 - 2 * x \\ -43 \quad -43 \\ \hline -40 = -2x \\ \hline 20 = x \end{array}$$

- 32) Jennifer won 70 lollipops playing horseshoes at her school's game night. Later, she gave two to each of her friends. She only has 8 remaining. How many friends does she have?

$$\begin{array}{r} 8 = 70 - 2 * x \\ -70 \quad -70 \\ \hline -62 = -2x \\ \hline 31 = x \end{array}$$

- 33) Castel won 64 super bouncy balls playing basketball at the county fair. At school he gave two to every student in his math class. He only has 2 remaining. How many students are in his class?

$$\begin{array}{r} 2 = 64 - 2x \\ -64 \quad -64 \\ \hline -62 = -2x \\ \hline 31 = x \end{array}$$

- 34) Mofor won 56 pieces of gum playing basketball at the county fair. At school he gave two to every student in his math class. He only has 2 remaining. How many students are in his class?

$$\begin{array}{r} 2 = 56 - 2x \\ -56 \quad -56 \\ \hline -54 = -2x \\ \hline 27 = x \end{array}$$