

Name _____
Date _____ Class _____

A. Determine whether the given value is a solution of the equation. Write yes or no.

1) $2x + 11 = 31$; $x = 2$ _____

2) $39 - w = 10$; $w = 29$ _____

3) $0.7v = 1.2$; $v = 2$ _____

B. Circle the letter of the equation that each given solution makes true.

4) $m=9$

A. $2m+2=20$ B. $20-m=12$ C. $20+m=30$ D. $2m-20=6$

5) $x= -7$

A. $5x=35$ B. $-5x=35$ C. $5x+2 = 34$ D. $5x-2=-28$

C. Solve.

6) How many packages of pencils can you buy for \$40 if one package costs \$8?

7) Last Friday you had \$29. Over the weekend you received some money for cleaning the attic. You now have \$41. How much money did you receive?

D. Solve the following equations to find the value of m

8) $m+9 = 19$

9) $5-m = 21$

10) $50 = 2m$

11) $2m-6 = 7+9$

12) $3(m+2) = 12$

13) $-6(m-4) = -17$

E. Solve each inequality and graph its solution

14) $m+3 > 3$

15) $m-7 < 15$

16) $4-m > 14$

17) $3-m < -12$

Extra Questions. Solve each inequality and graph its solution

18) $-3(m+4)+2 < 15+4m$

19) $13m+5+m > -3(m+3)-27$

20) $2(m+4)-4(m+9) < 10m+2$