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Pre-Algebra: 1st Nine Weeks Test REVIEW #1

Multiple Choice
Identify the choice that best completes the statement or answers the question.

Solve the equation. Check your solution.

D 1. $-0.9x = 8.1$
a. 7.2
b. 9
c. –7.29
d. –9

A 2. $\frac{5}{7} = \frac{2}{5}c$
a. $1\frac{11}{14}$
b. $\frac{3}{7}$
c. $-1\frac{13}{14}$
d. $\frac{11}{25}$

C 3. $3.47 + y = 3.7$
a. –0.23
b. –7.17
c. 0.23
d. 0.94

D 4. $-26.1 = -0.9p$
a. –27
b. 23.49
c. –25.2
d. 29

D 5. $-x + 5x = 3 + 33$
a. 6
b. –9
c. $\frac{1}{17}$
d. 9

A 6. $16(9-k) + 11k = 194$
a. –10
b. 1.9
c. –14
d. –67.6

A 7. $5(7-9y) + 17 = -218$
a. 6
b. 11
c. –6
d. –18.4

B 8. $-17n + 10n + 66 - 3n = -14$
a. –8
b. 8
c. $-7\frac{3}{7}$
d. $1\frac{25}{31}$

A 9. $-99 - 3c = 8c$

a. -9
b. 9
c. $\frac{1}{9}$
d. $\frac{5}{99}$

B 10. $4x - 1 = 6x + 2$

a. 1.5
b. -1.5
c. -0.3
d. 0.3

C 11. $-18 - \frac{1}{5}n = \frac{3}{5}n$

a. -14.4
b. -45
c. -22.5
d. -7.2

D 12. $3(z - 2) = 7z + 4$

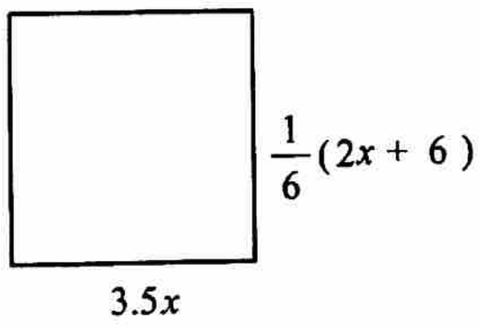
a. -1.5
b. 1
c. -0.7
d. -2.5

B 13. $9x = -7x - 128$

a. 64
b. -8
c. $14\frac{2}{9}$
d. $\frac{1}{8}$

Find x. Then find the perimeter of the square.

A 14.



a. $x = \frac{6}{19}$; $P = 4\frac{8}{19}$ units
b. $x = 5\frac{1}{2}$; $P = 77$ units
c. $x = 3\frac{5}{6}$; $P = 53\frac{2}{3}$ units
d. $x = 1\frac{1}{2}$; $P = 21$ units

Solve the equation.

B 15. $8.5f + 1 = -6f + 1$

a. 14.5
b. 0
c. no solution
d. infinitely many solutions

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A 16. $\frac{1}{5}(3w-8)=\frac{3}{5}w+7$

a. no solution
b. $8\frac{3}{5}$
c. infinitely many solutions
d. 15

C 17. $3(-9t-9)=-9(3t+3)$

a. no solution
b. 12
c. infinitely many solutions
d. -12

B 18. $5t-5-5t=1$

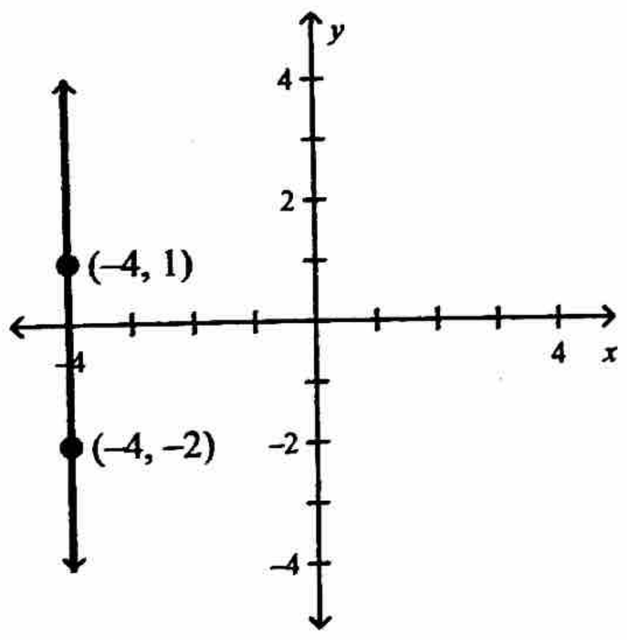
a. 6
b. no solution
c. infinitely many solutions
d. -6

B 19. $9.5+4d=-7.5+4d$

a. infinitely many solutions
b. no solution
c. -17
d. 17

Find the slope of the line.

C 20.



a. 0
b. 1
c. undefined
d. -1

Name the word that matches the definition given.

B 21. All of the points on a line.

a. linear equation
b. solution to a linear equation
c. slope
d. rise
e. run
f. *y*-intercept

E 22. The change in *x* between any two points on a line

a. linear equation
b. solution to a linear equation
c. slope
d. rise
e. run
f. *y*-intercept

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A

Find the slope of the line through the given points.

23. $(-1, -3), (-1, -8)$

a. undefined
b. 0
c. 3
d. 5

A

Write the linear equation in slope-intercept form. (Solve for y.)

24. $\frac{1}{8}x + y = -15$

a. $y = -\frac{1}{8}x - 15$
b. $y = -8x - 15$
c. $x = -8y + \frac{15}{8}$
d. $y = -\frac{1}{8}x + 15$

C

25. $-6x + y = 5$

a. $x = \frac{1}{6}y + \frac{5}{6}$
b. $y = -6x + 5$
c. $y = 6x + 5$
d. $y = 6x - 5$

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Pre-Algebra: 1st Nine Weeks Test REVIEW #2

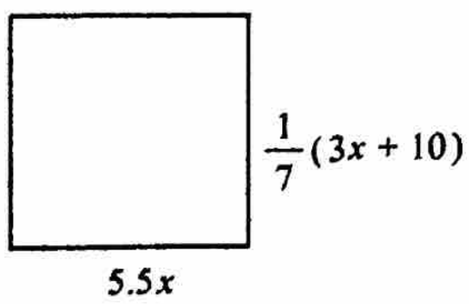
Short Answer

Solve the equation. Check your solution.

1. $-0.4x = 1.2$ $x = -3$
2. $\frac{2}{3} = \frac{4}{7}c$ $c = 1\frac{1}{6}$
3. $5.52 + y = 4.7$ $y = -.82$
4. $-16.8 = -0.8p$ $p = 21$
5. $-x + 4x = 22 + 8$ $x = 10$
6. $21(4 - y) + 13y = 116$ $y = -4$
7. $7(3 - 6w) + 12 = -261$ $w = 7$
8. $-4n + 3n + 43 - 7n = -29$ $n = 9$
9. $-78 - 5c = 8c$ $c = -6$
10. $4x - 1 = 6x + 4$ $x = -2.5$
11. $-30 - \frac{1}{5}n = \frac{2}{5}n$ $n = -50$
12. $3(z - 2) = 7z + 1$ $z = -1.75$
13. $2x = -5x - 63$ $x = -9$

Find x. Then find the perimeter of the square.

14.



$x = \frac{20}{71}$

$P = 6\frac{14}{71}$ units

Solve the equation.

15. $-5m-2=3.5m-2$ m=0

16. $\frac{1}{3}(2x+2)=\frac{2}{3}x-3$ no solution

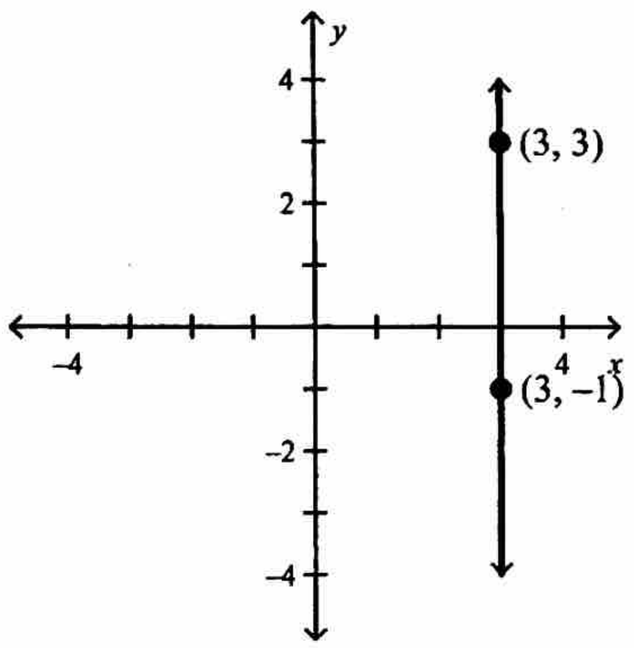
17. $6(-3p-3)=-3(6p+6)$ inf. many

18. $6b-5-6b=-9$ no solution

19. $9.5-9p=5.5-9p$ no solution

Find the slope of the line.

20.



undefined

Name the word that matches the definition given.

21. All of the points on a line. solution to a linear equation

22. The change in x between any two points on a line run

Find the slope of the line through the given points.

23. (–6, –7), (–1, –7) 0

Write the linear equation in slope-intercept form. (Solve for y.)

24. $\frac{1}{3}x+y=17$ $y=-\frac{1}{3}x+17$

25. $-x+y=7$ $y=x+7$