MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve.

1) $4a = -32$

    A) -8 B) 36 C) 1 D) -36

1) _____

2) $\frac{7}{8}x = 56$

    A) $\frac{441}{8}$ B) 64 C) 49 D) $\frac{455}{8}$

2) _____

3) $-\frac{4}{9}m = \frac{1}{2}$

    A) $\frac{9}{8}$ B) $-\frac{9}{2}$ C) $-\frac{9}{8}$ D) $-\frac{8}{9}$

3) _____

4) $6r + 3 = 51$

    A) 42 B) 46 C) 8 D) 5

4) _____

5) $4(6x - 1) = 16$

    A) $\frac{5}{8}$ B) $\frac{17}{24}$ C) $\frac{5}{6}$ D) $\frac{1}{2}$

5) _____

6) $17x + 3(x + 1) = 20(x + 1) - 17$

    A) no solution   B) 0

    C) all real numbers   D) 1

6) _____

Use the multiplication principle of equality to eliminate the fractions or decimals; then solve.

7) $\frac{7}{4}x + \frac{9}{2} = \frac{3}{2}x$

    A) -24 B) 24 C) 18 D) -18

7) _____

8) $\frac{1}{3}x + 2 = \frac{1}{6}x + \frac{4}{3}$

    A) -12 B) 3 C) -4 D) 4

8) _____

9) $\frac{1}{5}(y + 2) = \frac{4}{5} - y$

    A) 1 B) $-\frac{1}{2}$ C) -1 D) $\frac{1}{3}$

9) _____

10) $1.3x - 2.5 = 0.8x - 0.55$

    A) 3.9 B) 4.29 C) -0.256 D) 4

10) _____

Solve.

11) $5 - 8x = 4x - 3x - 49$ 11) _____

    A) $\dfrac{44}{7}$ B) $\dfrac{49}{9}$ C) 6   D) 7

Use the multiplication principle of equality to eliminate the fractions or decimals; then solve.

12) $0.4 - 8.3y - 2.7y = 1 - 11y - 0.6$ 12) _____

    A) 0.4   B) –11

    C) all real numbers   D) no solution

Solve.

13) $2x + 2 + 4(x + 1) = 3x - 2$ 13) _____

    A) $\dfrac{9}{8}$ B) $-\dfrac{2}{5}$ C) $-\dfrac{8}{3}$ D) 3

14) $4(x - 3) - 20 = 6x - 2(x - 2)$ 14) _____

    A) all real numbers   B) no solution

    C) –24   D) –16

Use the multiplication principle of equality to eliminate the fractions or decimals; then solve.

15) $1.2x + 4.1 = 0.6x + 2.96$ 15) _____

    A) –2   B) 0.526   C) –1.9   D) –2.09

Solve the problem.

16) The perimeter of a rectangular garden is to be 64 ft. Find the length if the width is 8 ft. (Use $P = 2l + 2w$)   16) _____

    A) 24 ft.   B) 22 ft.   C) 21 ft.   D) 23 ft.

17) The area of a rectangular garden is to be 98 ft.^{2}. Find the length if the width must be 7 ft. (Use $A = lw$)   17) _____

    A) 16 ft.   B) 91 ft.   C) 13 ft.   D) 14 ft.

1) A
2) B
3) C
4) C
5) C
6) C
7) D
8) C
9) D
10) A
11) C
12) C
13) C
14) B
15) C
16) A
17) D