

Bellwork:

① Find the area of a circle if its circumference is  $8\pi$ .

$$A = \pi r^2$$

$$r = ?$$

$$A = \pi \cdot 4^2$$

$$A = \pi \cdot 16$$

$$A = 16\pi$$

$$C = 2\pi r$$

$$8\pi = 2\pi r$$

$$8 = 2r$$

$$r = 4$$

$$\frac{C}{2\pi} = r \rightarrow \frac{8\pi}{2\pi} = r$$
$$4 = r$$

2) Solve for  $m$ :  $y = mx + b$

$$\frac{y - b}{x} = \frac{mx + b - b}{x}$$
$$\frac{y - b}{x} = m$$

3) Solve for  $r$ :  $C = 2\pi r$

$$\frac{C}{2\pi} = r$$

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$$\frac{y-b}{x} = \frac{mx}{x}$$

$$\frac{y-b}{x} = m$$

③ Solve for  $r$ :  $C = \frac{2\pi r}{2\pi}$

$$\frac{C}{2\pi} = r$$

1.3 OMIT 11-14

③  $6(n+5)$

⑧ The sum of 8 and three times a number is 5.

⑮ 4      ⑮  $\frac{22}{5} = 4.4$

⑳ 5

⑳  $P = \frac{I}{rt}$



㉑  $x = 4y + 18$

25 **Quiz 1.1-1.2 Review**

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**Evaluate each expression.**

1)  $(2^2)(6)$

3)  $(8 - 6 + 1) \div 3$

5)  $5 - 3 + 6^2$

7)  $12 \div (6 - (1 + 4) + 1)$

9)  $6 + (4 \div 2)^2 - 3$

**Evaluate each using the values given.**

11)  $(z)(x^2)$ ; use  $x = 3$ , and  $z = 6$

13)  $kj - h$ ; use  $h = 6$ ,  $j = 6$ , and  $k = 2$

15)  $x - (4 + x) - (z - 6)$ ; use  $x = 2$ , and  $z = 1$

17)  $1 - z - (8 - 5 + y)$ ; use  $y = -6$ , and  $z = 1$

19)  $q - (p + r) + p + 3$ ; use  $p = 2$ ,  $q = 3$ , and  $r = 1$

21)  $m + 5 \div 5 + p + m$ ; use  $m = 2$ , and  $p = 1$

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$$h = \frac{A - 2\pi r^2}{2\pi r}$$

2)  $8 \div (3 + 1)$

4)  $(5 + 12 - 5) \div 2$

6)  $(7 + 1 + 2) \div 5$

8)  $(3)(5) + 4 \div 4 + 4$

10)  $((12)(2)) \div 4 + 12 \div 2$

12)  $4r + q$ ; use  $q = 4$ , and  $r = 4$

14)  $b - a \div 4$ ; use  $a = 4$ , and  $b = 6$

16)  $p - r + \frac{p}{5} - r$ ; use  $p = 5$ , and  $r = -9$

18)  $\frac{p - q + |q|}{2}$ ; use  $p = 8$ , and  $q = -9$

20)  $y - (y - y)(2 + x)$ ; use  $x = 1$ , and  $y = 1$

22)  $x \div 5 + zx - x$ ; use  $x = 5$ , and  $z = 2$

Name the set or sets to which each number belongs.

23)  $\frac{8}{5}$

24)  $\sqrt{62}$

25)  $\sqrt{2}$

26) 9

Simplify each expression.

27)  $1 + 2x - 4$

28)  $8k - 9k$

29)  $-8n + 9n$

30)  $7x - 2x$

31)  $-(x + 7)$

32)  $-8(9p - 1)$

33)  $-(n + 2)$

34)  $-6(2 + 8k)$

35)  $-4(2 - 2n) + 5n$

36)  $-5(9 - r) + 1$

37)  $-4x - 7(4x - 2)$

38)  $-(1 + 6m) - 9m$

39)  $-10(1 - 3b) - 3(9b - 2)$

40)  $3(1 + 8x) + 10(x - 10)$

41)  $-(3 + 4v) - 10(v - 5)$

42)  $9(10 + 3x) - 7(-6x + 10)$

43)  $\frac{27}{8}k - \frac{10}{3}k$

44)  $2a + \frac{15}{8} + 7a - \frac{14}{9}$

45)  $\frac{11}{9}p - \frac{7}{2}p$

46)  $x + \frac{3}{8} - \frac{1}{5}x$

Solve each equation.

47)  $144 = -8(2m - 8)$

48)  $-312 = 8(1 + 5x)$

$$49) 7(1 + 5r) + 3r = -145$$

$$50) 7(b - 6) - 6(b + 4) = -73$$

$$51) -16 = -(v - 4) - 5(v + 4)$$

$$52) -50 = -(2 - 5x) - 4(-5 - 3x)$$

$$53) 3(1 - 8n) - 2(7n - 5) = 13$$

$$54) -6x + 6x = 6(x + 7) - 2(-5 + x)$$

$$55) -4(x + 2) + 4(x - 8) = -5x - 5x$$

$$56) k + 2 - 8k = 3(-6k - 2) + 8(1 + k)$$

$$57) -4(7a + 7) = -4(5a - 5)$$

$$58) \text{ Solve for } m: y = mx + b$$

$$59) \text{ Solve for } v: d = \frac{m}{v}$$

$$60) \text{ Solve for } r: C = 2\pi r$$

## Answers to Quiz 1.1-1.2 Review

- |   |                                  |                     |                          |
|---|----------------------------------|---------------------|--------------------------|
| 1) 24   | 2) 2                             | 3) 1                | 4) 6                     |
| 5) 38   | 6) 2                             | 7) 6                | 8) 20                    |
| 9) 7  | 10) 12                           | 11) 54              | 12) 20                   |
| 13) 6   | 14) 5                            | 15) 1               | 16) 24                   |
| 17) 3   | 18) 13                           | 19) 5               | 20) 1                    |
| 21) 6   | 22) 6                            | 23) Q, R            | 24) I, R                 |
| 25) I, R  | 26) N, W, Z, Q, R                | 27) $-3 + 2x$       | 28) $-k$                 |
| 29) $n$   | 30) $5x$                         | 31) $-x - 7$        | 32) $-72p + 8$           |
| 33) $-n - 2$  | 34) $-12 - 48k$                  | 35) $-8 + 13n$      | 36) $-44 + 5r$           |
| 37) $-32x + 14$   | 38) $-1 - 15m$                   | 39) $-4 + 3b$       | 40) $-97 + 34x$          |
| 41) $47 - 14v$  | 42) $20 + 69x$                   | 43) $\frac{1}{24}k$ | 44) $9a + \frac{23}{72}$ |
| 45) $-\frac{41}{18}p$   | 46) $\frac{4}{5}x + \frac{3}{8}$ | 47) $\{-5\}$        | 48) $\{-8\}$             |
| 49) $\{-4\}$  | 50) $\{-7\}$                     | 51) $\{0\}$         | 52) $\{-4\}$             |
| 53) $\{0\}$   | 54) $\{-13\}$                    | 55) $\{4\}$         | 56) $\{0\}$              |
| 57) $\{-6\}$  |                                  |                     |                          |
| 58) The dot next to the choice indicates that it is the answer. |                                  |                     |                          |
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$$\frac{I}{rt} = \frac{prt}{rt}$$

$$\frac{I}{rt} = p$$

$$\frac{I}{3.5} = \frac{p \cdot 3.5}{3.5}$$



$$\textcircled{24} \quad y = \frac{1}{4}x - 12$$

$+12 \qquad \qquad \qquad +12$

$$4(y+12) = \frac{\frac{1}{4}x}{\frac{1}{4}} \cdot 4$$

$$\boxed{4y + 48 = x}$$

$$\textcircled{25} \quad 2A = \frac{x+y}{2} \cdot 2$$

$$2A = x + y$$

$-x \quad -x$

$$\boxed{2A - x = y}$$

$$\textcircled{26} \quad A = 2\pi r^2 + 2\pi r h$$
$$\begin{array}{r} -2\pi r^2 \quad -2\pi r^2 \\ \hline \end{array}$$

$$\frac{A - 2\pi r^2}{2\pi r} = \frac{2\pi r h}{2\pi r}$$

$$\frac{A - 2\pi r^2}{2\pi r} = h$$