Whole Numbers

CHAPTER 1

1. Which of the following is an incorrect classification of a number?
    1. Inverse
    2. Rational
    3. Decimals
    4. Fractions

2. Place these mathematical operations in the order that they should be performed:
    a. Perform operations that require adding or subtracting, starting from left to right.
    b. Perform operations that are inside the parentheses first.
    c. Perform operations that require multiplying or dividing, starting from left to right.

    1. c, b, a
    2. b, c, a
    3. a, b, c
    4. a, c, b

3. Which numbers are considered whole numbers? ***Select all that apply.***
    1. 10,000
    2. 0.6
    3. 7
    4. 3/5

4. Which sign(s) indicate that a division operation should be performed? ***Select all that apply***.
    1. ×
    2. /
    3. ÷
    4. –

5. Which sign(s) indicate that a multiplication operation should be performed? ***Select all that apply***.
    1. +
    2. /
    3. *
    4. x

6. Which of the equations below correctly indicates the distributive property of number?
    1. 10 + 7 = 7 + 10
    2. (3 + 6) + 8 = 3 + (6 + 8)
    3. (14 x 2) x 3 = 14 x (2 x 3)
    4. 9 x (7 + 1) = (9 x 7) + (9 x 1)

7. For the number 2,875,634, which number is in the hundreds place?
    1. 2
    2. 8
    3. 6
    4. 4

8. For the number 342,916, which number is in the ten-thousands place?
    1. 3
    2. 4
    3. 1
    4. 9

Calculate the following equations.

9. 12 + 42 = _____

10. 6,157 + 816 = _____

11. 8,153,757 + 4,514 = _____

12. 54 – 36 = _____

13. 845 – 627 = _____

14. 48,685 – 7,526 = _____

15. 16 × 8 = _____

16. 84 × 75 = _____

17. 120 x 231 = _____

18. 16 ÷ 4 = _____

19. 153 ÷ 17 = _____

20. 1000 ÷ 8 = _____

ANSWERS

Whole Numbers

CHAPTER 1

1. Which of the following is an incorrect classification of a number?
   1. Inverse
   2. Rational
   3. Decimals
   4. Fractions

   ANS: 1

   Rationale: Numbers may be expressed as integers, rational or irrational numbers, real numbers, fractions, decimals, whole numbers, or factors. Inverse in not a classification of a number.

2. Place these mathematical operations in the order that they should be performed:
   a. Perform the operations that require adding or subtracting, starting from left to right.
   b. Perform the operations that are inside the parentheses first.
   c. Perform the operations that require multiplying or dividing, starting from left to right.

   1. c, b, a
   2. b, c, a
   3. a, b, c
   4. a, c, b

   ANS: 2

   Rationale: This is the correct order for performing mathematical operations.

3. Which of these numbers are considered whole numbers? ***Select all that apply.***
   1. 10,000
   2. 0.6
   3. 7
   4. 3/5

   ANS: 1, 3

   Rationale: Whole numbers are called *natural numbers* or *counting numbers*. They include 0 and all positive numbers such as 1, 2, 3, 4 and so on.

4. Which signs indicate that a division operation should be performed? ***Select all that apply.***
   1. ×
   2. /
   3. ÷
   4. -

   ANS: 2, 3

Rationale: The symbols / and ÷ indicate division. The other symbols indicate multiplication and subtraction.

5. Which sign(s) indicate that a multiplication operation should be performed? ***Select all that apply***.
   1. +
   2. /
   3. *
   4. x

   ANS: 3, 4

   Rationale: The symbols x and * indicate multiplication. The other symbols indicate addition and division.

6. Which of the equations below correctly indicates the distributive property of number?
   1. 10 + 7 = 7 + 10
   2. (3 + 6) + 8 = 3 + (6 + 8)
   3. (14 x 2) x 3 = 14 x (2 x 3)
   4. 9 x (7 + 1) = (9 x 7) + (9 x 1)

   ANS: 4

   Rationale: The distributive property demonstrates that multiplication must be "distributed" to all terms inside a bracket (a x (b + c) – (a x b) + (a x c). Answer1 demonstrates the commutative property; answer 2 and 3 demonstrates the associative property.

7. For the number 2,875,634, which number is in the hundreds place?
   1. 2
   2. 8
   3. 6
   4. 4

   ANS: 3

   Rationale: The place value in the hundreds place is the third value from right to left.

8. For the number 342,916, which number is in the ten-thousands place?
   1. 3
   2. 4
   3. 1
   4. 9

   ANS: 2

   Rationale: The place value in the ten-thousands place is the fifth value from right to left.

9. 12 + 42 = _____

   ANS: 54

10. 6,157 + 816 = _____

    ANS: 6,973

11. 8,153,757 + 4,514 = _____
ANS: 8,158,271

12. 54 – 36 = _____
ANS: 18

13. 845 – 627 = _____
ANS: 218

14. 48,685 – 7,526 = _____
ANS: 41,159

15. 16 x 8 = _____
ANS: 128

16. 84 × 75 = _____
ANS: 6,300

17. 120 x 231 = _____
ANS: 27,720

18. 16 ÷ 4 = _____
ANS: 4

19. 153 ÷ 17 = _____
ANS: 9

20. 1000 ÷ 8 = _____
ANS: 125