

Basic Mathematics Quiz 031 (Simplification)

1. Simplify

$$\frac{3}{10} \div \frac{3}{7} \text{ of } \left(2\frac{3}{10} + 2\frac{3}{5} \right) + \frac{1}{5} \div 1\frac{2}{5} - \frac{2}{7}$$

- A) 1
- B) 2
- C) 0
- D) 3

2.

$$1 + 1 + \left\{ 1 + 1 + \left(1 - \frac{1}{3} \right) \right\} = ?$$

- A) 7/5
- B) 2/3
- C) 4/5
- D) None of these

3.

$$48 \div 12 \times \left(\frac{9}{8} \text{ of } \frac{4}{3} + \frac{3}{4} \text{ of } \frac{2}{3} \right) = ?$$

- A) 9
- B) 12
- C) 15
- D) None of these

4. Simplify:

$$2 \div [2 + 2 \div \{2 + 2 \div (2 + 2 \div 3)\}]$$

- A) 13/15
- B) 17/15
- C) 11/15
- D) None of these

5. Simplify

$$\frac{0.8 \times 0.8 \times 0.8 - 0.5 \times 0.5 \times 0.5}{0.8 \times 0.8 + 0.8 \times 0.5 + 0.5 \times 0.5}$$

- A) 0.8
- B) 0.4

- C) 0.3
- D) 0.13

6. Simplify

$$1 - [2 - \{5 - (4 - \overline{3-2})\}]$$

- A) 1
- B) 2
- C) 3
- D) 4

7.

$$\frac{69842 \times 69842 - 30158 \times 30158}{69842 - 30158} = ?$$

- A) 100000
- B) 69842
- C) 39684
- D) 30158

8. Simplify

$$\frac{2\frac{1}{7} - 2\frac{1}{2}}{2\frac{1}{4} + 1\frac{1}{7}} + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 - \frac{1}{2}}}}$$

- A) - (1/2)
- B) - (1/8)
- C) - (1/6)
- D) - (1/4)

9. Evaluate

$$\frac{0.53 \times 0.53 - 2 \times 0.53 \times 0.41 + 0.41 \times 0.41}{0.53 \times 0.41}$$

- A) 0.16
- B) 0.8
- C) 0.12
- D) None of these

10. Evaluate

$$\frac{9^2 \times 18^4}{3^{16}}$$

- A) $\frac{2}{3}$
- B) $\frac{4}{9}$
- C) $\frac{16}{81}$
- D) $\frac{32}{243}$

Answer Keys

Question	Answer
1	C
2	A
3	B
4	C
5	C

Question	Answer
6	A
7	A
8	D
9	C
10	C