

1.1 The Real Numbers

MULTIPLE CHOICE

1. Evaluate: $6 + 12(2) \div 3$

- a. 12
- b. 19
- c. 14
- d. 10

ANS: C PTS: 1

2. Evaluate: -9^2

- a. -18
- b. 18
- c. -81
- d. 81

ANS: C PTS: 1

3. Evaluate: $2^3 - |-7|$

- a. -1
- b. 1
- c. 15
- d. 13

ANS: B PTS: 1

4. Evaluate: $16 - 3(3 - 5) + 3^2$

- a. 19
- b. 31
- c. 9
- d. -17

ANS: B PTS: 1

5. Evaluate: $\frac{2}{3} - \left(\frac{1}{2}\right)^2$

- a. $\frac{5}{12}$
- b. $\frac{1}{3}$
- c. $-\frac{1}{6}$

d. 1

ANS: A PTS: 1

6. Evaluate: $-5 - |-3|$

a. -8

b. 2

c. 8

d. -2

ANS: A PTS: 1

7. Evaluate: $-11 + |-3| \div (-2)$

a. 7

b. -4

c. $-\frac{25}{2}$

d. -7

ANS: C PTS: 1

8. Evaluate: $\frac{23 - 4^2}{(3 - 4)^2}$

a. 7

b. -39

c. -7

d. 39

ANS: A PTS: 1

9. Evaluate: $\frac{9 + 4^2}{3 - (-2)}$

a. $\frac{25}{6}$

b. 25

c. 5

d. -25

ANS: C PTS: 1

10. Evaluate: $\frac{1}{8} \left(\frac{1}{16} \right) \div \frac{7}{8}$

a. $\frac{1}{8}$

- b. $\frac{7}{2}$
- c. $\frac{1}{112}$
- d. $\frac{7}{16}$

ANS: C PTS: 1

11. Evaluate: $9 - 3(5) + (4 - 6)$

- a. 32
- b. -4
- c. 28
- d. -8

ANS: D PTS: 1

12. Evaluate: $-12 - (4 - 10)$

- a. -6
- b. 26
- c. -18
- d. 18

ANS: A PTS: 1

13. Evaluate: $4 + 24 \div 6 \cdot 3 - 2$

- a. 14
- b. 12
- c. 18
- d. $\frac{10}{3}$

ANS: A PTS: 1

14. Evaluate: $54 \div 3^3 \cdot 2$

- a. 6
- b. 11664
- c. $\frac{1}{2}$
- d. 4

ANS: D PTS: 1

15. Evaluate: $\frac{1}{2}(10 - 6) - \frac{1}{3}(9 - 12)$

- a. 3

- b. 1
- c. 2
- d. 4

ANS: A

PTS: 1