



BASIC ALGEBRA ASSESSMENT SAMPLE

You have up to 1 hour to complete this assessment. You may use a calculator.

PART A - Multiple Choice

1. Which of the following is a real number?
 a) $\sqrt{-4}$ b) $\sqrt{4}$ c) $\sqrt{-1}$ d) $\sqrt{1}$

2. Which of the following is a rational number?
 a) $\sqrt{2}$ b) $\frac{1}{2}$ c) $\sqrt{3}$ d) $\sqrt{4}$

3. Which of the following is an integer?
 a) $\frac{1}{2}$ b) $\sqrt{4}$ c) $\sqrt{2}$ d) $\sqrt{3}$

4. Which of the following is a natural number?
 a) $\sqrt{4}$ b) $\sqrt{2}$ c) $\sqrt{3}$ d) $\sqrt{1}$

5. Which of the following is a real number?
 a) $\sqrt{-4}$ b) $\sqrt{4}$ c) $\sqrt{-1}$ d) $\sqrt{1}$

6. Which of the following is a rational number?
 a) $\sqrt{2}$ b) $\frac{1}{2}$ c) $\sqrt{3}$ d) $\sqrt{4}$

7. Which of the following is an integer?
 a) $\frac{1}{2}$ b) $\sqrt{4}$ c) $\sqrt{2}$ d) $\sqrt{3}$

8. Which of the following is a natural number?
 a) $\sqrt{4}$ b) $\sqrt{2}$ c) $\sqrt{3}$ d) $\sqrt{1}$

9. Which of the following is a real number?
 a) $\sqrt{-4}$ b) $\sqrt{4}$ c) $\sqrt{-1}$ d) $\sqrt{1}$

10. Which of the following is a rational number?
 a) $\sqrt{2}$ b) $\frac{1}{2}$ c) $\sqrt{3}$ d) $\sqrt{4}$

11. Which of the following is an integer?
 a) $\frac{1}{2}$ b) $\sqrt{4}$ c) $\sqrt{2}$ d) $\sqrt{3}$

PART B - Short Answer

12. Simplify: $3 + (-7) =$ _____

22. $-9 =$ _____

13. $-2^2 =$ _____

4. $3 - (-5) =$ _____

5. $\frac{10(3)}{(15)} =$ _____

6. Simplify: $5 + (-3) =$ _____

8. $12 - 18 =$ _____

7. Simplify: $4 - (-6) =$ _____

9. $15 - 20 =$ _____

8. Simplify: $2 + (-4) =$ _____

9. $10 - 15 =$ _____

9. Simplify: $3 - (-2) =$ _____

10. $8 - 12 =$ _____

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5. $\frac{x}{3} = \frac{12}{18}$

5. _____

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