



Grade 7 Integers & Rational Numbers Unit Test

Name _____ Date _____ Score _____ / 20

Part A • Integers

01 $-7 + (-8) =$ _____

02 $-6 + 7 =$ _____

03 $6 + (-5) =$ _____

04 $-8 + 7 =$ _____

Part B • Fractions

Add, subtract, multiply or divide. Simplify each answer. Write improper fractions as mixed numbers.

05 $\frac{4}{12} + \frac{1}{4} =$ _____

06 $\frac{1}{9} \div \frac{1}{2} =$ _____

07 $\frac{3}{7} - \frac{1}{3} =$ _____

08 $\frac{5}{7} \times \frac{3}{10} =$ _____



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Part C · Decimals

09 $50.104 - 0.486 =$ _____

10 $99.109 - 82.503 =$ _____

11 $92.020 + 14.297 =$ _____

12 $70.561 + 58.764 =$ _____

Part D · Absolute Value

13 $|x + 9| = 1$ _____

14 $|x + 4| = 3$ _____

15 $|x| = 6$ _____

16 $|x + 1| = 8$ _____

Part E · Order of Operations

17 $(4 + 4) \times 6 =$ _____

18 $(2 + 5) \times 1 =$ _____



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Part E · Order of Operations (continued)

19 $(12 - 1) \times 2 =$ _____

20 $(6 + 6) \times 11 =$ _____



Grade 7 Integers & Rational Numbers Unit Test (Answer Key)

Part A · Integers

01 $-7 + (-8) = -15$

02 $-6 + 7 = 1$

03 $6 + (-5) = 1$

04 $-8 + 7 = -1$

Part B · Fractions

Add, subtract, multiply or divide. Simplify each answer. Write improper fractions as mixed numbers.

05 $\frac{4}{12} + \frac{1}{4} = \frac{7}{12}$

06 $\frac{1}{9} \div \frac{1}{2} = \frac{2}{9}$

07 $\frac{3}{7} - \frac{1}{3} = \frac{2}{21}$

08 $\frac{5}{7} \times \frac{3}{10} = \frac{3}{14}$

Part C · Decimals

09 $50.104 - 0.486 = 49.618$

10 $99.109 - 82.503 = 16.606$

11 $92.020 + 14.297 = 106.317$

12 $70.561 + 58.764 = 129.325$

Part D · Absolute Value

13 $|x + 9| = 1 \quad x = -8 \text{ or } x = -10$

14 $|x + 4| = 3 \quad x = -1 \text{ or } x = -7$

15 $|x| = 6 \quad x = 6 \text{ or } x = -6$

16 $|x + 1| = 8 \quad x = 7 \text{ or } x = -9$



Grade 7 Integers & Rational Numbers Unit Test (Answer Key)

Part E · Order of Operations

$$17 \quad (4 + 4) \times 6 = 48$$

$$18 \quad (2 + 5) \times 1 = 7$$

$$19 \quad (12 - 1) \times 2 = 22$$

$$20 \quad (6 + 6) \times 11 = 132$$