

Grade 9 Number Unit Test

Name _____ Date _____ Score _____ / 12

Part A • Fractions

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

01 $-\frac{1}{2} \div \frac{7}{12} =$ _____

02 $-\frac{1}{11} \times \frac{7}{11} =$ _____

03 $1\frac{1}{12} - (-\frac{8}{9}) =$ _____

04 $-\frac{1}{8} + \frac{5}{8} =$ _____

Part B • Exponents & Powers

05 $4^6 \div 4^3 =$ _____

06 $3^{-2} =$ _____

07 A cube-shaped box has edges 2 cm long. What is its volume?

Answer: _____

08 You fold a sheet of paper in half 4 times. How many layers thick is it?

Answer: _____

Grade 9 Number Unit Test

Part C · Scientific Notation

09 $8.9 \times 10^4 =$ _____

10 $8600 =$ _____

11 $6.8 \times 10^5 =$ _____

12 $7000 =$ _____

Grade 9 Number Unit Test (Answer Key)

Part A • Fractions

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

01 $-\frac{1}{2} \div \frac{7}{12} = -\frac{6}{7}$

02 $-\frac{1}{11} \times \frac{7}{11} = -\frac{7}{121}$

03 $1 \frac{1}{12} - (-\frac{8}{9}) = 1 \frac{35}{36}$

04 $-\frac{1}{8} + \frac{5}{8} = \frac{1}{2}$

Part B • Exponents & Powers

05 $4^6 \div 4^3 = 64$

06 $3^{-2} = \frac{1}{9}$

07 A cube-shaped box has edges 2 cm long. What is its volume?

8 cm³

08 You fold a sheet of paper in half 4 times. How many layers thick is it?

16 layers

Part C • Scientific Notation

09 $8.9 \times 10^4 = 89000$

10 $8600 = 8.6 \times 10^3$

11 $6.8 \times 10^5 = 680000$

12 $7000 = 7 \times 10^3$