

7 Chapter 7 Test, Form 2B

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

1. Simplify $(m^4)^2$.
 A $6m$ B m^8 C m^6 D $2m^4$ 1. B
2. Simplify $(-2xy^2)^4(2x^3y^4)^2$.
 F $4x^{10}y^{22}$ G $-8x^8y^8$ H $64x^{10}y^{28}$ J $-4x^{10}y^{28}$ 2. H
3. Simplify $\frac{6n^{-5}y}{2n^{-3}y^{-2}}$. Assume the denominator is not equal to zero.
 A $\frac{4y^2}{n^2}$ B $\frac{3y^4}{n^2}$ C $\frac{3}{n^2y^2}$ D $\frac{3n^2}{y^4}$ 3. B
4. Simplify $\frac{(a^{-2}b^4)^{-4}}{(a^4b^{-3})^2}$. Assume the denominator is not equal to zero.
 F ab^8 G 1 H $\frac{a^{24}}{b^{48}}$ J $\frac{b^{48}}{a^{24}}$ 4. G
5. Which monomial represents the number of square units in the area of a circle with radius $3x^2$ units?
 A $9\pi x^6$ B $6\pi x^6$ C $9\pi x^9$ D $6\pi x^9$ 5. A
6. Express 8,450,000 in scientific notation.
 F 8.45×10^8 G 8.45×10^7 H 8.45×10^6 J 8.45×10^9 6. J
7. Evaluate $\frac{4.65 \times 10^{-8}}{5 \times 10^{-4}}$.
 A 9.3×10^{11} B 9.3×10^2 C 9.3×10^5 D 9.3×10^8 7. B
8. **SOLAR SYSTEM** The average distance Earth is from the Sun is about 9.296×10^7 miles, and the average distance Mars is from the Sun is about 1.4162×10^8 . About how many times as far is Mars from the Sun as Earth is from the Sun?
 F 0.7 G 0.9 H 1.3 J 1.5 8. J
9. Write $(8x)^{\frac{1}{2}}$ in radical form.
 A $8\sqrt{x}$ B $\sqrt{8x}$ C $8\sqrt{8x}$ D $x\sqrt{8}$ 9. B
10. Evaluate $125^{\frac{1}{3}}$.
 F 5 G 25 H 625 J 3125 10. G
11. Solve $6^{x^2+1} = 1296$.
 A 1 B 2 C 3 D 4 11. C

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