

Chapter 7 Mid-Chapter Test

SCORE _____

(Lessons 7-1 through 7-6)

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

1. Simplify $(x^3)(x^2)(x^2)(x^2)$.

A. $x^{12}y^2$

B. x^7y^2

C. x^7

D. x^{12}

1. _____

2. Simplify $(3x^3y^2) - (2x^3y^2)$.

F. $-32x^3y^2$

G. $72x^{12}y^2$

H. $-30x^{12}y^2$

J. $30x^{12}y^2$

2. _____

Simplify. Assume the denominator is not equal to zero.

3. $\frac{2x^2y^2}{2x^2y^2}$

A. $\frac{2x^2}{y^2}$

B. $-\frac{2x^2}{y^2}$

C. $-\frac{2x^2}{y^2}$

D. $\frac{2x^2}{y^2}$

3. _____

4. $\frac{2x^2y^2}{2x^2y^2}$

F. $\frac{1}{y^2}$

G. $\frac{x^2y^2}{y^2}$

H. x

J. $\frac{1}{x}$

4. _____

5. Solve $2^{3x+10} = 128$.

A. 3

B. 2

C. 1

D. -1

5. _____

6. Express 0.000792 in scientific notation.

F. 7.92×10^{-5}

H. 7.92×10^{-4}

G. 7.92×10^{-3}

J. 7.92×10^{-2}

6. _____

7. Evaluate $\frac{4.56 \times 10^2}{2.3 \times 10^{-3}}$.

A. 1.6×10^5

B. 1.6×10^7

C. 2.3104×10^5

D. 2.3104×10^6

7. _____

Part II Evaluate each product. Express the results in both scientific notation and standard form.

8. $(4.2 \times 10^2)(1.6 \times 10^{-3})$

8. _____

9. $(7.8 \times 10^{-3})(4 \times 10^{-4})$

9. _____

Simplify. Assume that no denominator is equal to zero.

10. $\frac{12x^2y^2}{3x^2y^2}$

11. $\frac{-10x^2y^2}{-10x^2y^2}$

10. _____

Solve each equation.

12. $8^x = 16$

11. _____

12. _____

13. $216^{x+1} = 6$

13. _____

Holt Math 11 7 Practice

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- Chapter 2: Essential Elements of Holt Math 11 7 Practice
- Chapter 3: Holt Math 11 7 Practice in Everyday Life
- Chapter 4: Holt Math 11 7 Practice in Specific Contexts
- Chapter 5: Conclusion

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web jan 1 2023 simulation of centrifugal fan is demonstrated by considering a preliminary design model of backward curved bladed impeller centrifugal having 11 blades md1 which is designed using theoretical concepts from fan handbooks to achieve an air capacity of 7 m³ s producing a total pressure at outlet of fan to be 2000 pa while impeller running at