

Chapter 7 Mid-Chapter Test

SCORE _____

(Lessons 7-1 through 7-4)

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

1. Simplify $(n^3)(n^2)(r^3)(r^6)$.

A $n^{10}r^{12}$

B n^3r^2

C nr^2

D nr^{14}

1. _____

2. Simplify $(3w^3r)^2(-2w^2r^3)^2$.

F $-72w^{18}r^8$

G $72w^{12}r^7$

H $-36w^{12}r^{10}$

J $36w^{10}r^6$

2. _____

Simplify. Assume the denominator is not equal to zero.

3. $\frac{m^6n^2}{m^2n^6}$

A $\frac{m^4}{n^4}$

B $-\frac{m^4}{n^2}$

C $-\frac{m^8}{n^3}$

D $\frac{m^8}{n^3}$

3. _____

4. $\frac{(x^2w^{-1})^2}{(x^3w^2)^2}$

F $\frac{1}{w^2}$

G $\frac{x^{12}}{w^2}$

H w

J $\frac{1}{w}$

4. _____

5. Solve $2^{3x+12} = 128$.

A 3

B 2

C 1

D -1

5. _____

6. Express 0.000702 in scientific notation.

F 7.02×10^{-2}

H 7.02×10^{-4}

G 7.02×10^{-3}

J 7.02×10^{-5}

6. _____

7. Evaluate $\frac{6.08 \times 10^7}{3.9 \times 10^{-2}}$.

A 1.6×10^2

B 1.6×10^9

C 2.3104×10^5

D 2.3104×10^{10}

7. _____

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

8. $(4.2 \times 10^5)(1.6 \times 10^{-3})$

8. _____

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

9. _____

Simplify. Assume that no denominator is equal to zero.

10. $\frac{2x^2y^2}{5(x^3y^3)^2}$

11. $\frac{-10m^{-1}y^2r}{-14m^{-2}y^{-2}r^{-4}}$

10. _____

Solve each equation.

11. _____

12. $8^2 = 16$

12. _____

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

13. _____

Holt Mathematics Final Study Guide

Wenbin Ji



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