

**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
- $(-2xy^2)^4(2x^2y^4)^2$
- .

**F**  $4x^{12}y^{22}$ **G**  $-8x^6y^6$ **H**  $64x^{12}y^{16}$ **J**  $-4x^{12}y^{16}$ 2. **H**

3. Simplify
- $\frac{6n^{-5}y}{2n^{-1}y^{-2}}$
- . Assume the denominator is not equal to zero.

**A**  $\frac{4y^2}{n^2}$ **B**  $\frac{3y^4}{n^2}$ **C**  $\frac{3}{n^4y^2}$ **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**  $ab^3$ **G** 1**H**  $\frac{a^{24}}{b^{24}}$ **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**  $8.45 \times 10^5$ **G**  $8.45 \times 10^7$ **H**  $8.45 \times 10^6$ **J**  $8.45 \times 10^8$ 6. **J**

7. Evaluate
- $\frac{4.65 \times 10^{-4}}{5 \times 10^{-4}}$
- .

**A**  $9.3 \times 10^{11}$ **B**  $9.3 \times 10^2$ **C**  $9.3 \times 10^2$ **D**  $9.3 \times 10^6$ 7. **B**

- 8.
- SOLAR SYSTEM**
- The average distance Earth is from the Sun is about
- $9.296 \times 10^7$
- miles, and the average distance Mars is from the Sun is about
- $1.4162 \times 10^8$
- . 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** 1.58. **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
- $125^{\frac{2}{3}}$
- .

**F** 5**G** 25**H** 625**J** 312510. **G**

11. Solve
- $6^{x^2+1} = 1296$
- .

**A** 1**B** 2**C** 3**D** 411. **C**

# Geometry Answers To Test Pearson Ch 10

**Cadcim**



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