

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 a^6b^3 **G** 1**H** $\frac{a^{24}}{b^{24}}$ **J** $\frac{b^{24}}{a^{24}}$ 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 8.45×10^5 **G** 8.45×10^7 **H** 8.45×10^6 **J** 8.45×10^8 6. **J**

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

A 9.3×10^{11} **B** 9.3×10^2 **C** 9.3×10^2 **D** 9.3×10^6 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** 1.58. **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**

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Rachel S Tattersall



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