

A.A.12: Division of Powers 2: Multiply and divide monomial expressions with a common base, using the properties of exponents. Note: Use integral exponents only

- 1 What is half of 2^6 ?
- 2 What is one-third of 3^6 ?
- 3 The quotient of $-\frac{15x^8}{5x^2}$, $x \neq 0$, is
- 4 The expression $\frac{-32x^8}{4x^2}$, $x \neq 0$, is equivalent to
- 5 When $-9x^5$ is divided by $-3x^3$, $x \neq 0$, the quotient is
- 6 Which expression represents $\frac{(2x^3)(8x^5)}{4x^6}$ in simplest form?
- 7 The expression $\frac{12w^9y^3}{-3w^3y^3}$ is equivalent to
- 8 Which expression represents $\frac{27x^{18}y^5}{9x^6y}$ in simplest form?
- 9 The expression $\frac{24x^6y^3}{-6x^3y}$ is equivalent to
- 10 Which expression represents $\frac{-14a^2c^8}{7a^3c^2}$ in simplest form?
- 11 The expression $\frac{5x^6y^2}{x^8y}$ is equivalent to
- 12 The expression $\frac{4x^2y^3}{2xy^4}$ is equivalent to
- 13 The product of $\frac{4x^2}{7y^2}$ and $\frac{21y^3}{20x^4}$, expressed in simplest form, is
- 14 Simplify: $\frac{27k^5m^8}{(4k^3)(9m^2)}$

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Answer Section

1 ANS:

$$2^5$$

$$\frac{2^6}{2^1} = 2^5$$

REF: 060813ia

2 ANS:

$$3^5$$

$$\frac{3^6}{3^1} = 3^5$$

REF: 061219ia

3 ANS:

$$-3x^6$$

REF: 060005a

4 ANS:

$$-8x^6$$

REF: 060707a

5 ANS:

$$3x^2$$

REF: 080405a

6 ANS:

$$4x^2$$

$$\frac{(2x^3)(8x^5)}{4x^6} = \frac{16x^8}{4x^6} = 4x^2$$

REF: fall0703ia

7 ANS:

$$-4w^6$$

REF: 061103ia

8 ANS:

$$3x^{12}y^4$$

REF: 060903ia

9 ANS:

$$-4x^3y^2$$

REF: 011503ia

10 ANS:

$$\frac{-2c^6}{a}$$

REF: 061018ia

11 ANS:

$$\frac{5y}{x^2}$$

REF: 080526a

12 ANS:

$$\frac{2x}{y}$$

REF: 010817a

13 ANS:

$$\frac{3y}{5x^2}$$

REF: 081311ia

14 ANS:

$$\frac{3k^2m^6}{4}$$

REF: 010932ia