

Divide. Express the quotient in lowest terms.

26) $\frac{3x^2}{4} \div \frac{x^3}{20}$

A) $\frac{15}{x}$

B) $\frac{x}{15}$

C) $\frac{60x^2}{4x^3}$

D) $\frac{15x^2}{x^3}$

$$\frac{3x^{2-z}}{4} \cdot \frac{20}{x^{3-z}} = \frac{3}{1} \cdot \frac{5}{x}$$

$$\frac{15}{x}$$

26) _____

27) $\frac{x^2y^4}{2z^3} \div \left(\frac{-10x^5}{12z} \right)$

A) $-\frac{3y^4x}{5x^3z^2}$

B) $-\frac{5x^7y^4}{12z^4}$

C) $\frac{5x^7y^4}{12z^4}$

D) $-\frac{3y^4}{5x^3z^2}$

$$\frac{x^{2-z}y^4}{2z^{3-1}} \cdot \frac{12z^{1-1}}{-10x^{5-z}}$$

$$\frac{y^4}{z^2} \cdot \frac{6}{-10x^3} = \frac{y^4}{z^2} \cdot \frac{3}{-5x^3}$$

$$-\frac{3y^4}{5x^3z^2}$$

27) _____

Solve.

28) $\frac{2}{3}k = 4$

A) 6

B) 4

C) 5

D) 1

$$\left(\frac{2}{3}k = 4 \right) \cdot 3$$

$$\frac{6k}{3} = 12$$

$$2k = 12$$

$$\frac{2k}{2} = \frac{12}{2}$$

$$k = 6$$

28) _____

29) $\frac{4}{5}k = \frac{8}{5}$

A) 8

B) 1

C) 9

D) 2

$$\left(\frac{4}{5}k = \frac{8}{5} \right) \cdot 5$$

$$\frac{4 \cdot \cancel{5}}{\cancel{5}} k = \frac{8 \cdot \cancel{5}}{\cancel{5}}$$

$$\frac{4k}{4} = \frac{8}{4}$$

$$k = 2$$

29) _____