

66-70-A

59-65-B

51-58-C

45-50-D

44↓-F

70*.84	65.1
70*.72	58.8
70*.64	50.4
■	44.8

$$26. \frac{4xy}{2x^{-1}y^{-3}} \left(\frac{2xy^2}{3xy} \right)^{-2} =$$

$$= \frac{4xy \cdot y^3}{2} \cdot \frac{(2xy^2)^{-2}}{(3xy)^{-2}}$$

$$= \frac{4xyxy^3}{2} \cdot \frac{(3xy)^2}{(2xy^2)^2}$$

$$= \frac{4xyxy^3}{2} \cdot \frac{3^2 x^2 y^2}{4x^2 y^4}$$

$$= \frac{9x^2 y^2}{2}$$

$$9. 2x^3 \cdot (-3x)^2 =$$

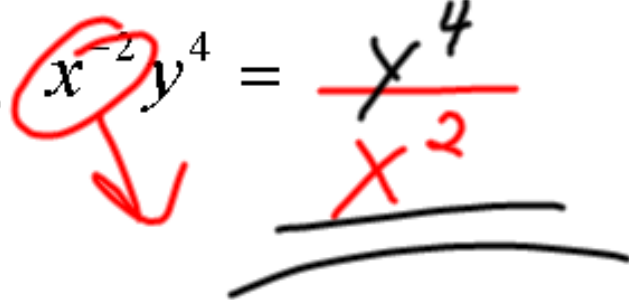
$$2x^3 \cdot (-1)^2 \cdot 3^2 \cdot x^2$$
$$2x^3 \cdot 1 \cdot 9 \cdot x^2$$
$$\underline{\underline{18x^5}}$$

$$(2mn)^6 = 2^6 m^6 n^6$$
$$\underline{\underline{64m^6n^6}}$$

$$24. \frac{\overset{6}{\cancel{36}} a^8 b^2}{\cancel{ab}} \cdot \frac{\cancel{ab}}{\underset{6}{\cancel{6}}} = \underline{\underline{6 a^8 b^3}}$$

13. $\frac{1}{4^{-4}} = 4^4 = \underline{\underline{256}}$

16. $x^{-2}y^4 = \frac{y^4}{x^2}$



$$\begin{aligned}
 25. \quad & \frac{6x^2y^2}{xy^3} \cdot \frac{(4x^2y)^2}{xy^2} = \\
 & = \frac{\cancel{6}x^{\cancel{2}}y^{\cancel{2}}}{\cancel{x}y^{\cancel{3}}} \cdot \frac{\cancel{4}^2x^{\cancel{2} \cdot 2}y^{\cancel{2} \cdot 2}}{\cancel{x}y^{\cancel{2}}} \\
 & = \frac{96x^4}{1}
 \end{aligned}$$

Use the Quotient of Powers Property to

$$17. \frac{7^6}{7^9} = 7^{6-9} \quad 18.$$

$$= 7^{-3} = \frac{1}{7^3} = \frac{1}{\underline{\underline{343}}}$$

20. $\frac{x^3}{1} \cdot \frac{1}{x^2} =$

$$\frac{x^3}{x^2} = x^{3-2}$$

$$\underline{\underline{x}}$$

9. $\frac{x^7 \cdot x}{x^2} = \frac{x^8}{x^2} = x^{8-2}$
 $= \underline{\underline{x^6}}$

19. $\frac{x^5 \cdot x}{x^2} =$

$x^{5+1} = \underline{\underline{x^6}}$

$$21. \left(\frac{-2}{3} \right)^3 = \frac{(-2)^3}{3^3}$$

$$= \frac{-8}{27}$$

2

$$23. \frac{\cancel{2} 4x^3 y^3}{\cancel{2} xy} \cdot \frac{5\cancel{xy}^2}{\cancel{2} y} = \underline{\underline{5x^3 y^3}}$$

12. $4^{-2} = \frac{1}{4^2} = \frac{1}{16}$ 13.

14. $(4^{-1})^{-3} =$ 15

$$4^{-1 \cdot -3} = 4^3 = \underline{\underline{64}}$$

$$V = \frac{4}{3} \pi (3a)^2$$
$$V = \frac{4}{3} \pi 3^2 a^2$$
$$V = \frac{\textcircled{4}}{\cancel{13}} \pi \cdot \cancel{9}^{\textcircled{3}} \cdot a^2$$
$$\underline{\underline{V = 12\pi a^2}}$$