

2, 6, 4, 8, 5

$$2. (3 \cdot 5)^{-1} = 15^{-1} = \frac{1}{15}$$

$$4. (-2^{-2})^{-1} = -2^2 = \frac{-2 \cdot 2}{= -4}$$

$$(-2)^2 = (-2)(-2) = 4$$

$$5. (2^{-2} \cdot 3^{-1} \cdot 5^0)^{-1}$$

$$2^2 \cdot 3 \cdot 5^0$$

$$2^2 \cdot 3 \cdot 1 = 4 \cdot 3 = \textcircled{12}$$

$$6. 5^{-1} (3^{-2} \cdot 2^{-3})^0$$

$$\frac{1}{5} \cdot 1 = \textcircled{\frac{1}{5}}$$

8.

$$\left(\frac{3}{4}\right)^{-1} \cdot \left(\frac{4}{3}\right)^{-2}$$

$$\frac{\cancel{4}}{\cancel{3}} \cdot \frac{3^2}{4^2} = \frac{4 \cdot 9}{3 \cdot 16} = \frac{36}{48}$$

$$\textcircled{\frac{3}{4}}$$

$$\textcircled{\frac{3}{4}}$$

$$\frac{(3a^3)^{-2}}{a^{-3}b^{-3}} = \frac{3^{-2}a^{-6}}{a^{-3}b^{-3}}$$

$$\frac{\cancel{a^3}b^3}{3^2\cancel{a^3}} = \frac{b^3}{9a^3}$$

$$\frac{(a^{-2}b)^{-1}}{(ab^2)^{-2}} = \frac{a^2b^{-1}}{a^{-2}b^{-4}}$$

$$\frac{a^2 \cdot a^2 b^4}{\cancel{b}} = \textcircled{a^4 b^3}$$

$$22. \left(\frac{2pq^{-1}}{4q^2} \right)^{-1}$$

$$33. \left(\frac{x}{y^2} \right)^{-1} \left(\frac{x^{-2}}{y} \right)^2$$