

4, 5, 6, 7, 8

$$4. (-2^{-2})^{-1}$$

$$-2^2 = -4$$

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

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

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

$$5^{-1} = \textcircled{\frac{1}{5}}$$

$$7. 2 \left(\frac{2}{5}\right)^{-2} = 2 \cdot \frac{2^{-2}}{5^{-2}}$$

$$2 \cdot \frac{5^2}{2^2} = \frac{25}{2}$$

$$2 \cdot \frac{5^2}{2^2} = \frac{2 \cdot 25}{4} = \frac{50}{4} = \frac{25}{2}$$

$$8. \left(\frac{3}{4}\right)^{-1} \left(\frac{4}{3}\right)^{-2}$$

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

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

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

$$-2^2 = -2 \cdot 2 = -4$$

2/10/10

2. $(3.5)^{-1}$

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

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

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