

Name _____

Order of Operations with Fractions

Simplify the following expressions by performing the operations with exponents and fractions.

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

$$\frac{41}{16} \text{ or } 2\frac{9}{16}$$

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

$$\frac{9}{32}$$

$$5) \left(-\frac{3}{5}\right)^2 + 2$$

$$\frac{59}{25} \text{ or } 2\frac{9}{25}$$

$$7) \left(-\frac{5}{6}\right)^3 \div 5$$

$$\frac{25}{216}$$

$$9) \left(-\frac{5}{6}\right)^2 + 1$$

$$\frac{61}{26} \text{ or } 1\frac{25}{36}$$

$$2) \left(-\frac{4}{5}\right)^2 \times 6$$

$$\frac{96}{25} \text{ or } 3\frac{21}{25}$$

$$4) \left(-\frac{4}{5}\right)^2 + 3$$

$$\frac{91}{25} \text{ or } 3\frac{16}{25}$$

$$6) \left(-\frac{2}{3}\right)^3 \div 3$$

$$\frac{8}{81}$$

$$8) \left(-\frac{7}{8}\right)^2 + 2$$

$$\frac{177}{64} \text{ or } 2\frac{49}{64}$$

$$10) \left(-\frac{5}{6}\right)^3 \times 2$$

$$\frac{125}{108} \text{ or } 1\frac{17}{108}$$