

Name _____

Multiplying/Dividing Fractions and Mixed Numbers

Date _____ Period _____

Find each product.

$$1) -\frac{5}{4} \cdot \frac{1}{3} = \boxed{-\frac{5}{12}}$$

$$2) \frac{4}{8} \cdot \frac{7}{10} = \boxed{\frac{4}{5}}$$

$$3) \frac{4}{9} \cdot \frac{7}{4} = \boxed{\frac{7}{9}}$$

$$4) -\frac{2}{3} \cdot \frac{5}{4} = \boxed{-\frac{5}{6}}$$

$$5) -2 \cdot \frac{3}{7}$$

$$-\frac{2}{1} \cdot \frac{3}{7} = \boxed{-\frac{6}{7}}$$

$$6) -2\frac{2}{3} \cdot 4\frac{1}{10}$$

$$-\frac{8}{3} \cdot \frac{41}{10} = \boxed{-\frac{164}{15} \text{ or } -10\frac{14}{15}}$$

$$7) -2\frac{1}{5} \cdot -1\frac{3}{4}$$

$$-\frac{11}{5} \cdot -\frac{7}{4} = \boxed{\frac{77}{20} \text{ or } 3\frac{17}{20}}$$

$$8) -1\frac{1}{4} \cdot 9$$

$$-\frac{5}{4} \cdot \frac{9}{1} = \boxed{-\frac{45}{4} \text{ or } -11\frac{1}{4}}$$

$$9) -1\frac{5}{7} \cdot -2\frac{1}{2}$$

$$-\frac{12}{7} \cdot -\frac{5}{2} = \boxed{\frac{30}{7} \text{ or } 4\frac{2}{7}}$$

$$10) -2\frac{3}{8} \cdot 2\frac{1}{2}$$

$$-\frac{19}{8} \cdot \frac{5}{2} = \boxed{-\frac{95}{16} \text{ or } -5\frac{15}{16}}$$

Find each quotient.

$$11) \frac{-1}{5} \div \frac{7}{4} = \frac{-1}{5} \cdot \frac{4}{7} = \boxed{\frac{-4}{35}}$$

$$12) \frac{-1}{2} \div \frac{5}{4} = \frac{-1}{2} \cdot \frac{4}{5} = \boxed{\frac{-2}{5}}$$

$$13) \frac{-3}{2} \div \frac{-10}{7} = \frac{-3}{2} \cdot \frac{7}{-10} = \frac{-21}{-20} = \boxed{\frac{21}{20} \text{ or } 1\frac{1}{20}}$$

$$14) \frac{1}{2} \div \frac{8}{7} = \frac{1}{2} \cdot \frac{7}{8} = \boxed{\frac{7}{16}}$$

$$15) \frac{-9}{5} \div 2 = \frac{-9}{5} \div \frac{2}{1} = \frac{-9}{5} \cdot \frac{1}{2} = \boxed{\frac{-9}{10}}$$

$$16) -3\frac{5}{9} \div 3 = \frac{-32}{9} \div \frac{3}{1} = \frac{-32}{9} \cdot \frac{1}{3} = \boxed{\frac{-32}{27} \text{ or } -1\frac{5}{27}}$$

$$17) -2 \div -3\frac{4}{5} = \frac{-2}{1} \div \frac{-19}{5} = \frac{-2}{1} \cdot \frac{5}{-19} = \frac{-10}{-19} = \boxed{\frac{10}{19}}$$

$$18) \frac{1}{9} \div -1\frac{1}{3} = \frac{1}{9} \div \frac{-4}{3} = \frac{1}{9} \cdot \frac{3}{-4} = \boxed{\frac{1}{-12}}$$

$$19) 1\frac{6}{7} \div 5\frac{3}{4} = \frac{13}{7} \div \frac{23}{4} = \frac{13}{7} \cdot \frac{4}{23} = \boxed{\frac{52}{161}}$$

$$20) -3\frac{7}{10} \div 2\frac{1}{4} = \frac{-37}{10} \div \frac{9}{4} = \frac{-37}{10} \cdot \frac{4}{9} = \boxed{\frac{-74}{45} \text{ or } -1\frac{29}{45}}$$