

6th Grade Honors
Complex Fractions

Name: _____
Date: _____ Per: _____

1.
$$\frac{\frac{4}{9} + 2\frac{3}{4}}{5}$$

2.
$$5 - \left(\frac{3\frac{6}{7}}{5} \right)$$

3.
$$\frac{4}{\frac{3}{4} + 1\frac{1}{2}}$$

4.
$$\frac{\frac{4}{5}}{\frac{2}{25} + \frac{5}{16}}$$

5.
$$16 + \frac{2\frac{1}{3}}{1\frac{1}{2}}$$

6.
$$\frac{10\frac{3}{5} - 1\frac{5}{6}}{3}$$

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Name: Key
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1.
$$\frac{\frac{4}{9} + 2\frac{3}{4}}{5}$$

$$\frac{\frac{16}{36} + 2\frac{27}{36}}{5}$$

$$\frac{115}{36} \div 5$$

$$\frac{115}{36} \cdot \frac{1}{5}$$

$$\frac{23}{36}$$

2.
$$5 - \left(\frac{3\frac{6}{7}}{5} \right)$$

$$5 - \left(\frac{27}{7} \div 5 \right)$$

$$5 - \left(\frac{27}{7} \cdot \frac{1}{5} \right)$$

$$5 - \frac{27}{35}$$

$$4\frac{35}{35} - \frac{27}{35}$$

$$4\frac{8}{35}$$

3.
$$\frac{\frac{3}{4} + 1\frac{1}{2}}{\frac{4}{3} + 1\frac{2}{4}}$$

$$\frac{4}{\frac{3}{4} + 1\frac{2}{4}}$$

$$\frac{4}{1\frac{5}{4}}$$

$$4 \div 1\frac{5}{4}$$

$$4 \div \frac{9}{4}$$

$$4 \cdot \frac{4}{9}$$

$$\frac{16}{9} \rightarrow \boxed{17/9}$$

4.
$$\frac{\frac{2}{25} + \frac{5}{16}}{\frac{4}{5}}$$

$$\frac{\frac{32}{400} + \frac{125}{400}}{\frac{4}{5}}$$

$$\frac{157}{400}$$

$$\frac{4}{5} \div \frac{157}{400}$$

$$\frac{4}{5} \cdot \frac{400}{157}$$

$$320/157 \rightarrow \boxed{2\frac{6}{157}}$$

5.
$$16 + \frac{2\frac{1}{3}}{1\frac{1}{2}}$$

$$16 + \left(2\frac{1}{3} \div 1\frac{1}{2} \right)$$

$$16 + \left(\frac{7}{3} \div \frac{3}{2} \right)$$

$$16 + \left(\frac{7}{3} \cdot \frac{2}{3} \right)$$

$$16 + \frac{14}{9}$$

$$16\frac{14}{9}$$

$$\boxed{17\frac{5}{9}}$$

6.
$$10\frac{3}{5} - 1\frac{5}{6}$$

$$\frac{9\frac{48}{30} - 1\frac{25}{30}}{3}$$

$$8\frac{23}{30} \div 3$$

$$\frac{263}{30} \cdot \frac{1}{3}$$

$$\frac{263}{90}$$

$$\boxed{2\frac{83}{90}}$$