

Simplifying Complex Fractions

Evaluate each expression.

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

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

3)
$$\frac{\frac{7}{6} \cdot \frac{9}{5}}{\frac{5}{4}}$$

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

5)
$$\frac{\frac{7}{5}}{6-1}$$

6)
$$\frac{3 + \frac{3}{2}}{\frac{1}{4}}$$

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

8)
$$\frac{3}{\frac{1}{2} + \frac{2}{5} + \frac{3}{4}}$$

9)
$$\frac{\frac{6}{5} - \frac{4}{1}}{\frac{6}{6} - \frac{1}{2}}$$

10)
$$\frac{\frac{8}{5}}{\frac{3}{2} - \frac{3}{5} - \frac{1}{6}}$$

$$11) \frac{\frac{3}{2}}{\left(2 - \frac{2}{3}\right)^3}$$

$$12) \frac{\frac{3}{4} + 2 - 1}{\frac{3}{2}}$$

$$13) 2 + \frac{\frac{3}{2} \cdot \frac{3}{5}}{2} + 1$$

$$14) \frac{\frac{7}{6} + \frac{3}{2} - \frac{1}{2} \cdot \frac{5}{3}}{\frac{1}{2}}$$

$$15) \frac{4}{3} \cdot 2 \cdot \frac{\frac{2}{5} \cdot 2}{\frac{2}{5}}$$

$$16) \frac{\frac{7}{5} \cdot 2}{\frac{2}{3} + \frac{1}{2}} - \frac{1}{2}$$

$$17) \left(\frac{\frac{5}{6}}{\frac{1}{4}} - 1 - 2 \right) \cdot 2$$

$$18) \frac{\frac{5}{6} + \frac{2}{5}}{\frac{7}{5} \cdot 2 - \frac{3}{4}}$$

$$19) \left(\frac{\frac{1}{5}}{\frac{3}{2}} - \frac{1}{2} \right) \cdot 2^3$$

$$20) \frac{2 \cdot \frac{4}{3} - \frac{1}{3}}{\frac{11}{6} - 1}$$

Answers to Simplifying Complex Fractions

1) $\frac{3}{28}$

2) $\frac{25}{24}$

3) $\frac{42}{25}$

4) $\frac{35}{9}$

5) $\frac{7}{25}$

6) 18

7) $\frac{49}{90}$

8) $\frac{20}{11}$

9) $\frac{67}{10}$

10) $\frac{24}{11}$

11) $\frac{81}{128}$

12) $\frac{3}{2}$

13) $\frac{69}{20}$

14) $\frac{11}{3}$

15) $\frac{16}{3}$

16) $\frac{19}{10}$

17) $\frac{2}{3}$

18) $\frac{74}{123}$

19) $\frac{4}{5}$

20) $\frac{14}{5}$