

Dividing Fractions

Find the simplified solution to the fraction questions below.

a) $\frac{2}{3} \div \frac{3}{9} =$

$$\frac{2}{3} \times \frac{9}{3} = \frac{18}{9} = 2$$

b) $\frac{1}{5} \div \frac{2}{3} = \frac{1}{5} \times \frac{3}{2} = \frac{3}{10}$

c) $1\frac{2}{3} \div \frac{2}{4} = \frac{5}{3} \times \frac{4}{2} = \frac{20}{6}$

$$= 3\frac{2}{6} = 3\frac{1}{3}$$

d) $4\frac{2}{3} \div \frac{2}{7} = \frac{14}{3} \times \frac{7}{2} = \frac{98}{6}$

$$= 16\frac{2}{6} = 16\frac{1}{3}$$

e) $5 \div \frac{3}{7} = \frac{5}{1} \times \frac{7}{3} = \frac{35}{3}$

$$= 11\frac{2}{3}$$

f) $3 \div \frac{5}{8} =$

$$\frac{3}{1} \times \frac{8}{5} = \frac{24}{5} = 4\frac{4}{5}$$

g) $2\frac{1}{7} \div 1\frac{7}{8} =$

$$\frac{15}{7} \times \frac{8}{15} = \frac{1}{7} \times \frac{8}{1} = \frac{8}{7} = 1\frac{1}{7}$$

h) $3\frac{4}{6} \div 4\frac{5}{7} =$

$$\frac{22}{6} \times \frac{7}{33} = \frac{2}{6} \times \frac{7}{3} = \frac{14}{18} = \frac{7}{9}$$

i) $\frac{13}{21} \div 6 =$

$$\frac{13}{21} \times \frac{1}{6} = \frac{13}{126}$$

j) $5\frac{2}{15} \div 1\frac{7}{35} =$

$$\frac{77}{15} \times \frac{35}{42} = \frac{11}{3} \times \frac{7}{6} = \frac{77}{18} = 4\frac{5}{18}$$

k) $\frac{15}{24} \div \frac{7}{9} = \frac{15}{24} \times \frac{9}{7}$

$$= \frac{15}{8} \times \frac{3}{7} = \frac{45}{56}$$

l) $1\frac{6}{45} \div 4\frac{27}{30} =$

$$\frac{51}{45} \times \frac{30}{147}$$

$$= \frac{51}{3} \times \frac{2}{147}$$

$$= \frac{102}{441}$$

$$= \frac{34}{147}$$