

FRACTIONS

MULTIPLICATION AND DIVISION

Example	
Find: a $\frac{2}{3} \times (-\frac{4}{5})$	b $\frac{1}{3} \times (\frac{2}{5})^2$
a $\frac{2}{3} \times (-\frac{4}{5})$ $= -\frac{2 \times 4}{3 \times 5} \quad \{ (+) \times (-) = (-) \}$ $= -\frac{8}{15}$	b $\frac{1}{3} \times (\frac{2}{5})^2$ $= \frac{1}{3} \times \frac{2}{5} \times \frac{2}{5}$ $= \frac{1 \times 2 \times 2}{3 \times 5 \times 5}$ $= \frac{4}{75}$

Evaluate, giving your answer in simplest form:

a $\frac{3}{4} \times \frac{1}{3}$

b $\frac{2}{5} \times \frac{3}{4}$

c $(-\frac{1}{2}) \times \frac{2}{3}$

d $\frac{4}{7}$ of 28

e $\frac{5}{4} \times (-\frac{2}{3})$

f $\frac{4}{7} \times \frac{21}{16}$

g $1\frac{1}{2} \times (-\frac{1}{3})$

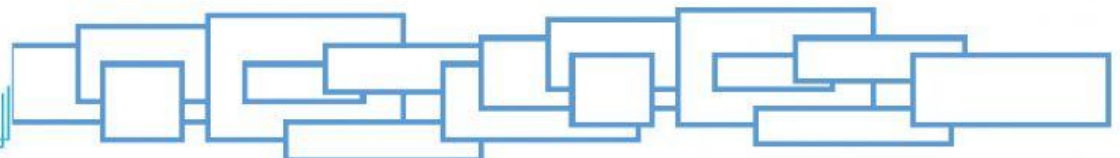
h $(-\frac{3}{4})^2$

i $\frac{3}{4}$ of 124

j $\frac{3}{8} \times \frac{4}{9}$

k $(-\frac{2}{3}) \times (-\frac{9}{8})$

l $\frac{2}{5}$ of -65



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Example

Find:

a $\frac{5}{4} \div \frac{2}{3}$

b $1\frac{1}{3} \div 3\frac{1}{2}$

a $\frac{5}{4} \div \frac{2}{3}$
 $= \frac{5}{4} \times \frac{3}{2}$ {multiplying by
 $= \frac{15}{8}$ reciprocal}

b $1\frac{1}{3} \div 3\frac{1}{2}$
 $= \frac{4}{3} \div \frac{7}{2}$ {converting to
 $= \frac{4}{3} \times \frac{2}{7}$ improper fractions}
 $= \frac{8}{21}$

Find:

a $\frac{2}{3} \div \frac{1}{6}$

b $\frac{5}{7} \div \frac{1}{3}$

c $\frac{3}{4} \div (-\frac{1}{2})$

d $\frac{4}{5} \div 3$

e $\frac{1}{4} \div 1\frac{2}{3}$

f $2\frac{3}{4} \div \frac{2}{3}$

g $1\frac{1}{2} \div (-\frac{3}{4})$

h $3\frac{1}{5} \div 1\frac{1}{3}$