FRACTIONS

MULTIPLICATION AND DIVISION

Example

Find: **a** $\frac{2}{3} \times \left(-\frac{4}{5}\right)$ **b** $\frac{1}{3} \times \left(\frac{2}{5}\right)^2$

a
$$\frac{2}{3} \times \left(-\frac{4}{5}\right)$$
$$= -\frac{2\times4}{3\times5} \quad \{(+)\times(-)=(-)\}$$
$$= -\frac{8}{15}$$

b
$$\frac{1}{3} \times \left(\frac{2}{5}\right)^2$$
$$= \frac{1}{3} \times \frac{2}{5} \times \frac{2}{5}$$
$$= \frac{1\times2\times2}{3\times5\times5}$$
$$= \frac{4}{75}$$

Evaluate, giving your answer in simplest form:

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

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

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

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

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

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

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

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

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

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

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

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

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LIVEWORKSHEETS

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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 reciprocal}
$= \frac{15}{8}$

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

Find:

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

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

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

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

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

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