A Fill in the missing numerator or denominator.

$\frac{3}{4} = \frac{}{16}$ $\frac{2}{3} = \frac{8}{}$ $\frac{7}{8} = \frac{}{24}$ $\frac{5}{6} = \frac{}{18}$ $\frac{4}{5} = \frac{40}{}$ $\frac{3}{10} = \frac{30}{}$

Write each fraction in its simplest form.

$\frac{9}{12} = $ ____ $\frac{12}{18} = $ ____ $\frac{20}{25} = $ ____ $\frac{24}{30} = $ ____ $\frac{70}{100} = $ ____ $\frac{45}{100} = $ ____

Change each improper fraction to a mixed number.

$\frac{19}{4} = $ ____ $\frac{31}{5} = $ ____ $\frac{43}{8} = $ ____ $\frac{29}{6} = $ ____ $\frac{77}{10} = $ ____ $\frac{40}{3} = $ ____

Change each mixed number to an improper fraction.

$7\frac{3}{4} = $ ____ $8\frac{2}{3} = $ ____ $5\frac{4}{5} = $ ____ $9\frac{7}{10} = $ ____ $4\frac{7}{8} = $ ____ $10\frac{5}{6} = $ ____

B Write as a fraction in its simplest form.

50 of 75 ____
30p of £1.00 ____
25cm of 1m ____
12kg of 30kg ____
70 of 100 ____
800g of 1kg ____
400ml of 2l ____
45 of 100 ____

C Find

$\frac{3}{5}$ of 70 ____
$\frac{5}{8}$ of 64 ____
$\frac{7}{10}$ of £1.20 ____ p
$\frac{5}{6}$ of 42l ____ l
$\frac{4}{7}$ of 350g ____ g
$\frac{13}{100}$ of £1.00 ____ p
$\frac{2}{3}$ of 1200 ____
$\frac{35}{100}$ of 1kg. ____ g

Find the whole when

$\frac{1}{6}$ is 35 ____
$\frac{3}{4}$ is 27p ____ p
$\frac{4}{5}$ is 36cm ____ cm
$\frac{7}{10}$ is £1.40 £ ____
$\frac{2}{3}$ is 800g ____ g
$\frac{5}{9}$ is 5000 ____
$\frac{3}{8}$ is 24l ____ l
$\frac{9}{20}$ is £1.80 £ ____

D Write as percentages.

a 33 out of 100 ____ %   b 87 out of 100 ____ %   c 9 out of 100 ____ %   d 45 out of 100 ____ %
a 0.65 ____ %   b 0.38 ____ %   c 0.75 ____ %   d 0.3 ____ %
a $\frac{29}{100}$ ____ %   b $\frac{56}{100}$ ____ %   c $\frac{1}{100}$ ____ %   d $\frac{13}{100}$ ____ %

Change each fraction first to hundredths, then write it as a percentage.

a $\frac{19}{50} = \frac{}{100} = $ ____ %   b $\frac{3}{25} = \frac{}{100} = $ ____ %   c $\frac{13}{20} = \frac{}{100} = $ ____ %

a $\frac{3}{4} = \frac{}{100} = $ ____ %   b $\frac{4}{5} = \frac{}{100} = $ ____ %   c $\frac{7}{10} = \frac{}{100} = $ ____ %

Fill the blank spaces in each of the columns. The first is done for you.

	a	b	c	d	e	f	g	h	i	j	k	l	m
Fraction in its simplest form	$\frac{1}{2}$			$\frac{1}{5}$				$\frac{1}{10}$				$\frac{1}{20}$	
Decimal fraction	0.5	0.25			0.4		0.8		0.3		0.9		0.01
Percentage	50%	%	75%	%	%	60%	%	%	%	70%	%	%	%

E Find the value of

25% of 120 ____
50% of 35 ____
75% of 400 ____
10% of 1000 ____
30% of 90 ____
70% of 200 ____
90% of 160 ____
20% of 95p ____ p
40% of £20 £ ____
60% of £15. £ ____

Find the value of

50% of 14p ____ p
20% of £6.50 £ ____
100% of 93p ____ p
10% of 2.5kg ____ g
5% of 4l ____ ml
30% of 2m ____ cm
1% of £1.00 ____ p
7% of £1.00 ____ p
3% of £3.00 ____ p
12% of £9.00. £ ____

F Find as a percentage

6 of 24 ____ %
$7\frac{1}{2}$ of 15 ____ %
40p of 50p ____ %
93p of 93p ____ %
200g of $\frac{1}{2}$kg ____ %
700ml of 1l ____ %
25p of £2.50 ____ %
£1.50 of £2.00 ____ %
7p of £1.00 ____ %
30cm of 1.5m. ____ %