

# CHECK-UP TEST | Number and geometry

Schofield & Sims

- A** Change to decimal fractions. When necessary work to the nearest second place.

a $\frac{4}{5}$	0.8	b $\frac{1}{6}$	0.17	c $\frac{2}{3}$	0.67	d $\frac{7}{8}$	0.88	e $\frac{5}{7}$	0.71
B	$\frac{1}{3} + \frac{1}{2} =$	$\frac{5}{6}$	$\frac{1}{2} - \frac{1}{6} =$	$\frac{1}{3}$	$\frac{2}{3} \times 12 =$	8	Express as mixed numbers.		
$\frac{1}{4} + \frac{1}{6} =$	$\frac{5}{12}$	$\frac{3}{4} - \frac{2}{3} =$	$\frac{1}{12}$	$10 \times \frac{2}{5} =$	14	$\frac{137}{10}$	$1\frac{3}{10}$		
$\frac{5}{8} + \frac{3}{4} =$	$\frac{1}{8}$	$3 - \frac{7}{12} =$	$\frac{1}{12}$	$1\frac{7}{10} \times 20 =$	34	$93 \div 8$	$11\frac{5}{8}$		
$\frac{3}{10} + \frac{1}{2} =$	$\frac{4}{5}$	$\frac{21}{24} - \frac{7}{18} =$	$\frac{3}{8}$	$40 \times \frac{3}{8} =$	15	$124 \div 9$	$13\frac{7}{9}$		

- C** Write each fraction in its simplest form as a percentage.

a $\frac{12}{20}$	60%	b $\frac{28}{40}$	70%	c $\frac{45}{100}$	45%	d $\frac{24}{32}$	75%	e $\frac{30}{50}$	60%
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Write each of these scales as a fraction.

a 1mm to 20cm	$\frac{1}{200}$	b 1cm to 5m	$\frac{1}{500}$	c 1cm to 1km	$\frac{1}{100000}$
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- D** Fill in the table. The first example is done for you.

	fraction (simplest form)	percentage (%)	ratio
40p of 50p	$\frac{4}{5}$	80%	4:5
300g of 0.5kg	$\frac{3}{5}$	60%	3:5
700ml of 1l	$\frac{7}{10}$	70%	7:10
5p of £1	$\frac{3}{20}$	5%	1:20

- E** 8 cost £10. What fraction of £10 do

3 cost  $\frac{3}{8}$  7 cost?

5 cost £7. What fraction of £7 do

2 cost  $\frac{2}{5}$  8 cost?

10 cost £3.50. What fraction of £3.50 do

9 cost  $\frac{9}{10}$  15 cost?

Share each quantity in the given ratio.

£30, ratio 3:2

£18

£12

1.75kg, ratio 4:1

1.4kg

350g

2m, ratio 5:3

125cm

75cm

- G** Estimate which of the angles marked *a*–*h* is:

an obtuse angle of  $130^\circ$

a right angle

a reflex angle of  $300^\circ$

a acute angle of  $80^\circ$

a reflex angle of  $240^\circ$

a acute angle of  $90^\circ$

a reflex angle of  $180^\circ$

a acute angle of  $100^\circ$

a reflex angle of  $270^\circ$

a acute angle of  $150^\circ$

a reflex angle of  $330^\circ$

a acute angle of  $120^\circ$

a reflex angle of  $210^\circ$

a acute angle of  $105^\circ$

a reflex angle of  $290^\circ$

a acute angle of  $115^\circ$

a reflex angle of  $280^\circ$

a acute angle of  $125^\circ$

a reflex angle of  $270^\circ$

a acute angle of  $135^\circ$

a reflex angle of  $260^\circ$

a acute angle of  $145^\circ$

a reflex angle of  $250^\circ$

a acute angle of  $155^\circ$

a reflex angle of  $240^\circ$

a acute angle of  $165^\circ$

a reflex angle of  $230^\circ$

a acute angle of  $175^\circ$

a reflex angle of  $220^\circ$

a acute angle of  $185^\circ$

a reflex angle of  $210^\circ$

a acute angle of  $195^\circ$

a reflex angle of  $200^\circ$

a acute angle of  $205^\circ$

a reflex angle of  $190^\circ$

a acute angle of  $215^\circ$

a reflex angle of  $180^\circ$

a acute angle of  $225^\circ$

a reflex angle of  $150^\circ$

a acute angle of  $235^\circ$

a reflex angle of  $120^\circ$

a acute angle of  $245^\circ$

a reflex angle of  $110^\circ$

a acute angle of  $255^\circ$

a reflex angle of  $100^\circ$

a acute angle of  $265^\circ$

a reflex angle of  $90^\circ$

a acute angle of  $275^\circ$

a reflex angle of  $80^\circ$

a acute angle of  $285^\circ$

a reflex angle of  $70^\circ$

a acute angle of  $295^\circ$

a reflex angle of  $60^\circ$

a acute angle of  $305^\circ$

a reflex angle of  $50^\circ$

a acute angle of  $315^\circ$

a reflex angle of  $40^\circ$

a acute angle of  $325^\circ$

a reflex angle of  $30^\circ$

a acute angle of  $335^\circ$

a reflex angle of  $20^\circ$

a acute angle of  $345^\circ$

a reflex angle of  $10^\circ$

a acute angle of  $355^\circ$

a reflex angle of  $0^\circ$

a acute angle of  $365^\circ$

a reflex angle of  $90^\circ$

a acute angle of  $375^\circ$

a reflex angle of  $180^\circ$

a acute angle of  $385^\circ$

a reflex angle of  $270^\circ$

a acute angle of  $395^\circ$

a reflex angle of  $360^\circ$

a acute angle of  $405^\circ$

a reflex angle of  $350^\circ$

a acute angle of  $415^\circ$

a reflex angle of  $340^\circ$

a acute angle of  $425^\circ$

a reflex angle of  $330^\circ$

a acute angle of  $435^\circ$

a reflex angle of  $320^\circ$

a acute angle of  $445^\circ$

a reflex angle of  $310^\circ$

a acute angle of  $455^\circ$

a reflex angle of  $300^\circ$

a acute angle of  $465^\circ$

a reflex angle of  $290^\circ$

a acute angle of  $475^\circ$

a reflex angle of  $280^\circ$

a acute angle of  $485^\circ$

a reflex angle of  $270^\circ$

a acute angle of  $495^\circ$

a reflex angle of  $260^\circ$

a acute angle of  $505^\circ$

a reflex angle of  $250^\circ$

a acute angle of  $515^\circ$

a reflex angle of  $240^\circ$