kg

Answer

- 1 2300 + 970 + 1700 =
- $\frac{7}{8} \div 7 =$
- 3 70% of 360° =
- 4 (15 x 8) ÷ 6 =
- 5 379m + 221m = km

km

 $6 \frac{f2.50 \times 12}{6} = f$

- 7 a $\frac{1}{2}l + xml = 615ml$. Find x. b $\frac{1}{2}l - 368ml = yml$. Find y.
- a ml

- 8 a $0.3 \times 0.2 =$
 - b 0.06 ÷ 0.2 =

b

a

- $9 \quad \frac{1}{4} + \frac{5}{16} =$
- 10 2.475m ÷ 9 = mm

mm

- 11 Subtract 17 from 9.
- 12 24.8 × 1.6 =

B

 $248 \times 16 = 3968$

Answer

- 1 How many quarters are there in 36?
- 2 Write as a fraction in its simplest form.
 - $a \frac{4}{1000} b \frac{45}{1000} c \frac{28}{1000}$
- b c
- 3 1kg costs £4.00. Find the cost of 700g
- 4 Find the product of 20 and 0.005.
- 5 How many centimetres remain when
- 268cm are taken from 3.4m? cm
- 6 Write to the nearest second decimal place.
 - a 53.176

a

b 24.694

- b
- 7 Find the mean of 1.1, 2.3 and 0.8
- 8 Share 3kg in the ratio 1:4.
- kg kg
- 9 Which year is MDCXXXII?
- 10 Find the area in cm² of a square of side 11cm.
- cm²
- 11 Which two numbers have a sum of 20 and a product of 36?
- 12 Deduct (£1.15 × 3) from (£18 ÷ 5).

- Answer
- 1 The approximate population of a city is 1.2 million. The actual population is 1207806. Find the difference.
- 2 Two parcels together have a mass of 18.5kg. One of them is 4kg heavier than the other. Find the mass of each parcel.
- 3 Which of these shapes will have a circular face when cut horizontally, and a rectangular face when cut vertically?







а

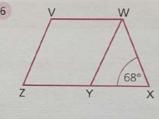
b

b

a

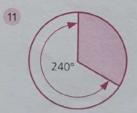
b

- 4 In a class of 30 children 12 were absent.
 Write the number absent as
 - a a fraction in its simplest formb a ratio.
- 5 A bagel costs 35p. How many can be bought for £7.00?

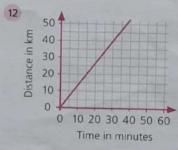


VWYZ is a rhombus. WXY is an isosceles triangle. Find

- a ∠ WYZ b ∠ VWY
- c ∠ ZVW.
- 7 Tom has 95p and Sophie has 73p.
- How much must Tom give to Sophie so that each has the same amount?
- 8 If 1 July falls on a Thursday how many Saturdays will there be in that month?
- 9 One child in every four in a school of 200 walks to school.
 - a What percentage do not walk to school?
 - b How many walk to school?
- Write the coordinates of the point (3, 5) when reflected in the x-axis.



The area of the circle is 321cm². Find the area of the shaded sector.



The graph shows the speed of a car. Use the graph to find the time taken by the car to travel 40km.

min

%

kg

km/h

Answer

1 £1.20 \times 3 $\frac{1}{2}$ =

- 2.64+3.36
- 3 2.25ml (250ml × 6) = ml
- ml

2

- 4 30 ÷ 25 =
- 5 1200km (320km + 280km + 335km) = km
- 6 3 1/8 = 196

96 a

96

q

kq

 $b^{\frac{3}{8}} = 6$

- 7 9.8 ÷ 4 =
- 9 $f6 \times \frac{2}{5} =$

- 10 9x = 33 + 48. Find the value of x.
- 11 Find the cost of 30cm at £1.80 per metre.
- $\frac{1}{2}$ of 4kg 60g = 9

 $8 \pm 5.00 - f = \pm 2.82$

Answer

- 1 Add 3 of 28 to 7 of 56.
- $2 (4 \times 10^3) + (2 \times 10^2) =$
- 3 Increase £3.00 by 7%.
- 4 Write $\frac{3}{8}$ as a decimal fraction.
- 5 Find the total mass in kilograms of these amounts of water.
 - 2.71 95ml 3.41
- 6 One pear costs 17p. Find the cost of
 - a 10 b 1000.

- a £
- b f
- 7 A rhombus has an area of 100cm². Its
 - base is 5cm. Find its height in millimetres
- 8 Approximate 4635 000 to
 - a the nearest 1000000
 - b the nearest 100000.
- 9 Write the year 1916 using
- Roman numerals.
- 10 Find the difference in hundredths between 100 x 0.016 and 100 x 0.017.
- 11 Express 43 ÷ 5 as
 - b a decimal.
- 12 Multiply £1.50 by 52

a a mixed number

hundredths

- b

- Answer
- 1 A cask holds 20.75l of water. The mass of the cask when empty is 850g. Find the mass of the cask when it is full.
 - A is the centre of the circle.

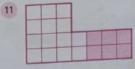
110

- a Name the triangle ABC by its sides.
- b Calculate the angle at B.
- 3 Six pairs of socks cost £8.37. Find to the nearest penny the cost of one pair of socks.
- 4 There are 4.545l of shampoo in a plastic container. The shampoo lasts for nine weeks. How many millilitres are used on average per week?



There was 87p change from £3 after buying the multipack. Find the cost of each bottle.

- 6 Find in litres the volume of a one multipack b eight multipacks.
- 7 A map is drawn to a scale of 1cm to 1km. How many metres are represented on a map by a line 14mm long?
- Find 8 a the area of the triangular end of 8cm the prism b the volume of the prism. b
- 9 A car averaged 8km to a litre of petrol on a four-hour journey of 312km.
 - a How many litres were used on the journey?
 - b What was the average speed?
- 10 The price of a pair of shoes costing £25 increased by £1.25. Write the increase as a percentage.



Write the proportion of shaded squares

- a as a fraction in its simplest form a b as a decimal.
- 12 Matthew arrived at a hotel on 29 October and left on 3 November. The charge
 - for the room was £10.50 per night. What was the total cost of the room?

Answer

- 2.999 + 0.1 =
- #1 +8=
- 6.25% of £4.00 = p
- $£3.24 = \times 2p$
- 86.6 × 200 =
- 5.21 480ml = 11
- 5x = 28.2. Find the value of x
- 11 730 ÷ 25 = 469 r

469 r

- 9 £2.78 + £2.78 + £2.78 + £2.78 + £2.78 =

D

- $4kg \times \frac{3}{1} = 1500g$
- 40cm cost 50p. Find the cost per metre.
- 12 Subtract 6 from -3.

Answer

1 a £1.32 × 4 =

a £

b £1.32 × 16 =

- b£
- 2 What must be added to $2\frac{9}{8}$ to make $4\frac{1}{2}$?
- 3 Find 8.5% of £10.

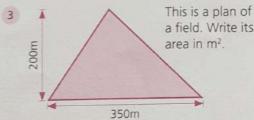
- 4 The perimeter of a rectangle is 30m.
- The width is 6.5m. Find its length.
- Divide £162 in the ratio 5:4
- 6 1000 bags of crisps cost £154.00. Find the cost of one bag of crisps to
 - the nearest penny. p
- 7 How much less than 20 is the product of 1.7 and 9?
- 8 How many thousandths in \(\frac{1}{4} \) of 0.02? thousandths
- Find the difference in millimetres between 0.7m and 369mm. mm
- 10 Write 150ml of 750ml as
 - a a fraction in its simplest form
 - b a percentage.

£16.70 + £12.95 + £9.28

- %
- 11 Round these amounts to the nearest £1 and then find the approximate answer.
- 12 If 5 miles is about 8km, about how many kilometres is 17.5 miles?

km

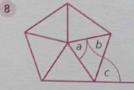
- Answer
- Write the answer 3.468 x 6
 - a to three decimal places
 - b to two decimal places
 - c to one decimal place.
- 2 The contents of four boxes of sweets were 51, 46, 49 and 54. Find the mean contents.



- 4 A crate of 240 eggs was delivered to a school kitchen. 12 of the eggs were broken. What percentage were
 - b not broken? a broken
- 5 F = {1, 2, 3, 6, , , , , 78} F = the set of factors of 78.
 - Find the missing factors.
- 6 Find each missing mass.

mass of onions	450g	1.75kg	zkg
mass of box	xg	750g	150kg
total mass	635g	ykg	1.1t

7 A camera costs £85.50. It can be paid for in nine equal instalments. Find the cost of each payment.

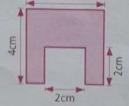


This is a regular pentagon. Find in degrees the measurement of La, Lb, Lc.

A selection pack 1g = 1000macontains 120 chocolates. Each chocolate has a mass of 500mg.

a Write the mass of each chocolate in grams.

- b Find in grams the total mass of
- the chocolates. 4cm 10



- For the shaded shape find
- a the area
- b the perimeter.
- 11 A wall 3m high and 4m wide is to be covered in wallpaper 50cm wide. What length in metres of the paper is required?
- 12 Find the cost per kilogram of 1.5kg of ice cream costing £3.18.

b

- m²
 - %
 - b %

a

£

- kg y
- kg
- 46 LC
- q a
- b

- - per kg

m

Answer

A Answer

- 1 (268 + 232) 350 =
- 2 2640000 = million

million

C

350p - (17p + 16p + 9p) =

р

4 3.5m - 175cm = cm

cm

- 5 $\frac{1}{21} = \frac{2}{3}$. Find the value of x.
- 6 Find the cost of 750ml at £4.80 per litre. £
- 7 16 r 4 8 y

Find the value of y.

- 8 4 × 18 × 50 =
- $9 \frac{6}{8} \div 12 =$
- 10 (12% of £5) + (8% of £5) =

£

- 11 $7\frac{1}{4}l \div = 725ml$
- 12 \$0.14 × 15 =

B Answer

1 Find in centimetres the perimeter of an equilateral triangle with sides measuring 96mm each.

cm

- Write the 24-hour clock time which is 1h 24min after 22:57.
- 3 How many times is 800g contained in 3.2kg?
- 4 Divide £85 by 6
 - a to the nearest 10p
 - b to the nearest penny.
- a f
- bf
- 5 The total of two amounts is £12 and their difference is £3.60. Find the two amounts.

£

- Find the difference in thousands between (1×10^5) and (9×10^4) .
- 7 Write $3\frac{1}{2}$ % as a decimal.
- 8 Multiply £2.54 by 1.5.

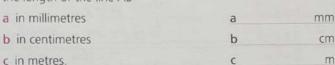
- Write the year 1349 using Roman numerals.
- 10 Increase £15 by 4%.

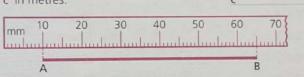
E

- 11 Write the scale 1cm to 2km as a fraction.
- The diameter of a circle is 6cm.
 Its circumference is 3.14 times greater.
 What is the perimeter of the semicircle?

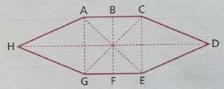
cm

- 1 Find the cost per kilogram of
 a shampoo costing £1.09 for 500g
 b conditioner costing £1.26 for 600g.
 b £
- A 50p coin has a mass of 13.5g.
 What is the mass of £10 worth of 50ps?
- 3 Write the length of a line 100 times the length of the line AB





- 4 On a plan of a house the living room measures 44mm long and 40mm wide. The scale of the plan is 1cm to 1m. Find in m² the area of the living room.
- 5 Which of the dotted lines are lines of symmetry?



- 6 Ellie ran 800m in 1min 52s. What was her average time per 100m?
- 7 On a five-day holiday George walked 14.75km, 13.76km, 12.29km, 10.15km and 9.32km. Round each distance to the nearest kilometre and find the approximate mean distance walked daily.

Y 36° 60° Z

The circumference of the circle is 420mm. Find the length of the arcs of

- a sector Y a b sector Z. b
- 9 Lemonade can be made of water and lemon juice in the ratio 4:1. How many litres of water are mixed with half a 50l cask of lemon juice?
- 10 Find the mean daily temperature.

Mon	Tues	Wed	Thurs	Fri
5°C	3°C	0°C	-1°C	-2°C

- 11 The point (3, 5) is translated two squares to the left and four squares down. The new point is then reflected in the *y*-axis. What are the coordinates of the reflected point?
- 12 These are the results of three tests. Write each as a percentage.

 a $\frac{18}{30}$ b $\frac{30}{40}$ c $\frac{10}{30}$

,) a % o %

km

CHECK-UP TEST | Measurement

the total of each row of coins

50p	20p	10p	5p	2p	1p	Total
304	2	3	4	6		
2	5	9			13	
	7		5	8		
		17	8		12	
1	3	6		10		
5	4	7	12			
11					23	

Find a the total cost of the items bought and b the change

money given	cost of items bought	total cost	change
50p	9p, 8p, 18p	р	р
four 10ps	5 at 7p each	р	р
£1	23p, 18p, 40p	р	р
£1 and 50p	3 at 38p each	£	р
£2	10 at 18p each	£	p
£5 note	£2.75, £1.28	£	p

£0.39 = 5ps + seven 2ps £0.85 = 50p + 5ps

£1.70 = two 10ps + 50ps £2.80 = eight 5ps + 20ps

£4.25 = seven 50ps + 5ps

How many items each costing

2p for 98p

3p for £1.74

5p for £2.05 50p for £18.50

20p for £25.20 5 for 6p for £1.62

7 for 10p for £3.30?

10 items cost £1.20 1 costs p

100 items cost £2.30 10 cost

20 items cost £3.60

8 items cost £1.44

3 cost p 5 items cost 85p

1 costs p 40 cost £

7 cost 30 cost

1 costs

7 cost

9 cost 100 cost £

mm

cm

mm

m

m

q

g

ml

ml

cm3

cm'

39p + 57p + 41p =f1.06 + f3.70 + f0.28 =

£

£

£

£

\$

£

p

cm

m

kg

1

kg

h

h

£4.00 - £1.68 =

£1.36 - 87p =

€6.03 - €1.89 = $19p \times 7 =$

 $f2.08 \times 9 =$

£5.78 × 6 = £3.04 ÷ 8 =

 $£27 \div 4 =$ \$43.45 ÷ 5 =

55cm =

309mm= 5040mm = 1095cm =

300m = 2805m =

5000m =

90g = 875g =

3500g = 120ml =

650ml =

20.7cm =3.45m =10.6m =

m

cm

m

m

km

km

km

kg

kg

kg

-1

cm³

0.085 km =7.5km =

4.285km = 0.065 kg =

8.11kg =

5.4l = 0.75l =

4.5l =

2.0081 =

Find the cost of: 100g at 70p per kg

400g at 45p per kg 250g at £1.10 per ½kg 3.5kg at 18p per ½kg

450g at 70p per 2kg 75cm at £3.00 per m 10cm at £2.90 per m 20cm at £4.20 per m

1.25l at 36p per 1 900ml at 60p per l 6.5m² at £4.50 per m².

Fill in the missing times.

12-hour clock time	24-hour clock time
10.35 p.m.	
	04:10
12.05 a.m.	
	23:55

How many hours and minutes between

8.45 a.m. and 11.20 a.m.

10.25 a.m. and 1.05 p.m.

9.38 p.m. and 2.10 a.m.

11:50 and 13:15 06:19 and 10:20? min min

> min min

> > min

How many days inclusive from 28 March to 7 April from 13 May to 4 June from 15 July to 3 August from 24 September to 8 November from 19 October to 10 December?

1 hour

Approximate to the nearest:

£1 a £12.09

10p a £2.37

Write the answer to the nearest penny.

a 1 of £7.00 c 1 of £17.25

b £3.52 b £10.06

h

b £3.10 ÷ 7 d \frac{1}{4} of £3.95 Approximate to the nearest: centimetre 0.837m 305.6cm metre 9kg 550g kilogram 6.3251 litre 7.750kg ½ kilogram 2h 29min hour 4h 21min.

- Change to decimal fractions. When necessary work to the nearest second place
- $\frac{2}{3} \times 12 =$ $10 \times 1\frac{2}{5} =$ $1\frac{7}{10} \times 20 =$ $40 \times \frac{3}{8} =$
- Express as mixed numbers. 93 + 8

e 1

- Write each fraction in its simplest form as a percentage
- € 45
- d 24

d a

e 30

Write each of these scales as a fraction.

a 1mm to 20cm

而 + 15 =

b 1cm to 5m

c 1cm to 1km

 $124 \div 9$

	fraction (simplest form)	percentage (%)	ratio
40p of 50p	4 5	80%	4:5
300g of 0.5kg		%	
700mt of 11		96	
5p of £1	10.00	%	

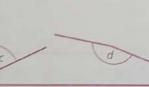
	fraction (simplest form)	percentage (%)	ratio
50cm of 2m		%	
750g of 1.5kg		%	
250 of 400		%	
35p of £5		%	

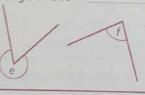
kg

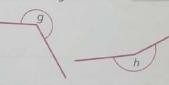
- 8 cost £10. What fraction of £10 do
 - 5 cost £7. What fraction of £7 do

 - 10 cost £3.50. What fraction of £3.50 do
 - 15 cost?
 - Share each quantity in the given ratio.
 - £30, ratio 3:2
 - 1.75kg, ratio 4:1
 - kg 2m, ratio 5:3 cm
- Find the value of 3 of £1.60 0.75 of 600 60% of ½kg 0.9 of 2l 50% of 3m 70cm 100 of 1kg 0.95 of 10000 17% of £3.00 5 of 1.8kg.
- Find the whole when 0.25 is £3.50 ₹ is 57cm cm 10% is 850g kg 0.6 is 42p D a is 2.5kg kg 30% is 1.8l 0.375 is 300 10 is 91p 5% is 200g. kg

- Estimate which of the angles marked a h is: an obtuse angle of 130°
- a right angle a reflex angle of 300°
- an acute angle of 80° a reflex angle of 240°

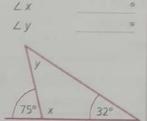




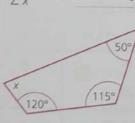


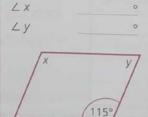
Find the angle marked x and/or y in each shape.

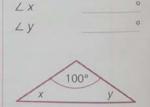
LX



Ly





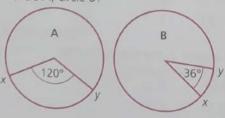


Fill in the table for regular polygons.



name of regular polygon	number of sides	angle at centre
	6	
octagon		0
	5	0

What fraction of the circumference is the arc xy in circle A, circle B?



CHECK-UP TEST | Number and geometry

Schofield & Sims

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

2 × 12 = $10 \times 1\frac{2}{5} =$ $1\frac{7}{10} \times 20 =$ $40 \times \frac{3}{8} =$

Express as mixed numbers. $93 \div 8$ $124 \div 9$

C 45

d 24

d 2

e 30 50

White each of these scales as a fraction.

a 1mm to 20cm

b 1cm to 5m

c 1cm to 1km

	fraction (simplest form)	percentage (%)	ratio
40p of 50p	4 5	80%	4:5
300g of 0.5kg		%	
700ml of 1l		%	
5p of £1		%	

	fraction (simplest form)	percentage (%)	ratio
50cm of 2m		%	
750g of 1.5kg		%	
250 of 400		%	
35p of £5		%	

8 cost £10. What fraction of £10 do

5 cost £7. What fraction of £7 do

8 cost?

10 cost £3.50. What fraction of £3.50 do

15 cost? 9 cost

Share each quantity in the given ratio.

£30, ratio 3:2

1.75kg, ratio 4:1

kg 2m, ratio 5:3 cm

Find the value of $\frac{3}{10}$ of £1.60

0.75 of 600 60% of ½kg

0.9 of 2l 50% of 3m 70cm

100 of 1kg

0.95 of 10000 17% of £3.00

of 1.8kg.

Find the whole when

0.25 is £3.50 ₹ is 57cm 10% is 850g

kg 0.6 is 42p p is 2.5kg kg

cm

kg

30% is 1.8l

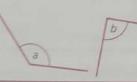
0.375 is 300

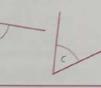
10 is 91p 5% is 200g.

Estimate which of the angles marked a - h is: an obtuse angle of 130°

a right angle a reflex angle of 300°

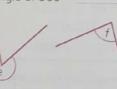
an acute angle of 80° a reflex angle of 240°







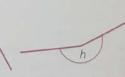
cm





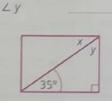
p

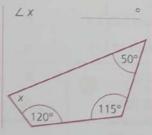
kg

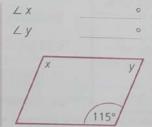


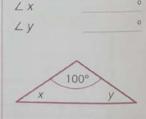
Find the angle marked x and/or y in each shape.

LX Ly







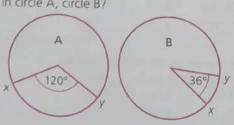


Fill in the table for regular polygons.



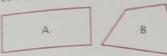
name of regular polygon	number of sides	angle at centre
	6	0
octagon		0
	5	۰

What fraction of the circumference is the arc xy in circle A, circle B?



CHECK-UP TEST | Geometry

Each of the shapes A to G is a quadrilateral.











G

Give the letter of the shape which is

c a trapezium

a a rhombus

d a square

b a rectangle

e a parallelogram.

Write the name of the shape (or shapes) which has:

four equal sides

four right angles

opposite sides equal and parallel

one pair only of parallel sides

diagonals which are equal

diagonals which bisect each other at right angles

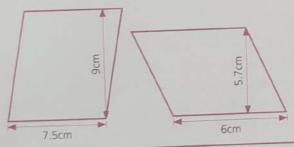
Write the letter of the shape or shapes which have:

a no axis of symmetry

- b two axes of symmetry
- c four axes of symmetry
- B Fill in the missing measurements. In each case give the unit of measurement.

R	ectangles A =	$= lb b = \frac{A}{l} l =$	b
length	breadth	perimeter	area
7cm	5.5cm		
16cm	6cm		
	8cm	36cm	
9cm			31.5cm ²
	20m		500m²

Triangle	es $A = \frac{bh}{2}$ $b = 2\frac{A}{h}$	$h = 2\frac{\pi}{b}$
base	height	area
35mm	12mm	
27cm	18cm	
	6cm	27cm ²
	3cm	16.5cm
1.6m		7.2m ²

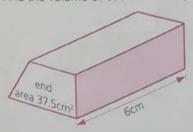


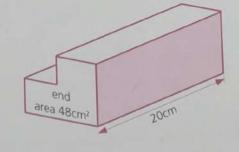
Rho	ombuses and	parallelogra	ams A = bh	$b = \frac{A}{h} h$	$=\frac{A}{b}$
base	7.5cm	6cm		1.5m	40cm
height	9.0cm	5.7cm	7cm		15mm
area			112cm ²	4.5m²	

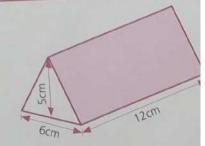
Circle	$C = \pi d o$	$r \ 2\pi r$: $\pi = 3.14$	
radius (r)		3cm	10cm
diameter (d)	2cm		
circumference (c)			

Cubes	and cuboids V	$l = lbh$ $l = \frac{V}{bh}$	$b = \frac{V}{bl}$
length	breadth	height	volume
8cm	5cm	9cm	
20cm	20cm	20cm	
	3.5m	2m	56m³
6.4cm		5cm	320cm ³
10cm	9.3cm		186cm

Find the volume of each of these prisms.







3	ection 3 lest 9		
E		Answe	er
1	2300 + 970 + 1700 =		49
2	7/8 ÷ 7 =		
3	70% of 360° =		25
4	(15 × 8) ÷ 6 =		
	379m + 221m = km		2
	$\frac{\text{£2.50} \times 12}{6} = \mathbf{f}$		0.6k
		£5.00	
7	a $\frac{1}{2}l + xml = 615ml$. Find x. b $\frac{1}{2}l - 368ml = yml$. Find y.	a	115n
0		b	132n
8	a $0.3 \times 0.2 =$ b $0.06 \div 0.2 =$	a 0.06	
0	$\frac{1}{4} + \frac{5}{16} =$	b 0.3	
			1
	2.475m ÷ 9 = mm		275mn
11	Subtract 17 from 9.		-8
12	24.8 × 1.6 =		39.68
	248 × 16 = 3968		
В		Answer	
	How many quarters are there in 36?	Answer	144
1		Answer	144
1	How many quarters are there in 36? Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$		
1	Write as a fraction in its simplest form.	b 200	
1 2	Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$	b 200	C 250
1 2 3 4 5	Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$ 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when	b 200	
1 2 3 4 5	Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$ 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m?	b ⁹ / ₂₀₀ f2.80	C 250
1 2 3 4 5	Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$ 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place.	b ⁹ / ₂₀₀ f2.80	C 7/250
1 2 3 4 5 6	Write as a fraction in its simplest form. a $\frac{4}{1000}$ b $\frac{45}{1000}$ c $\frac{28}{1000}$ a $\frac{1}{250}$ 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m?	b ⁹ / ₂₀₀ f2.80	C 7/250
3 4 5	Write as a fraction in its simplest form. a \(\frac{4}{1000}\) b \(\frac{45}{1000}\) c \(\frac{28}{1000}\) a \(\frac{1}{250}\) 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694	b ⁹ / ₂₀₀ f2.80	0.1 72cm
1 2 3 4 5	Write as a fraction in its simplest form. a \frac{4}{1000} \text{b} \frac{45}{1000} \text{c} \frac{28}{1000} \text{a} \frac{1}{250} 1kg costs \frac{\text{4.00}}{1000} \text{Find the cost of 700g.} Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8.	b 200 f2.80	0.1 72cm
1 2 3 4 5 6 6	Write as a fraction in its simplest form. a \frac{4}{1000} \ b \frac{45}{1000} \ c \frac{28}{1000} \ a \frac{1}{250} 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8. Share 3kg in the ratio 1:4.	b ⁹ / ₂₀₀ f2.80	0.1 72cm
1 2 3 4 5 6 6 7 7 8 9 1	Write as a fraction in its simplest form. a \frac{4}{1000} \ b \frac{45}{1000} \ c \frac{28}{1000} \ a \frac{1}{250} 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8. Share 3kg in the ratio 1:4. Which year is MDCXXXII?	b 200 f2.80	0.1 72cm
1 2 3 4 5 6 6 7 8 9 1 10 F	Write as a fraction in its simplest form. a \frac{4}{1000} \ b \frac{45}{1000} \ c \frac{28}{1000} \ a \frac{1}{250} 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8. Share 3kg in the ratio 1:4.	b 200 f2.80	0.1 72cm 1.4 2.4kg 1632
1 2 3 4 5 5 6 6 7 8 9 1 10 F S	Write as a fraction in its simplest form. a \frac{4}{1000} \ b \frac{45}{1000} \ c \frac{28}{1000} \ a \frac{1}{250} 1kg costs £4.00. Find the cost of 700g. Find the product of 20 and 0.005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. a 53.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8. Share 3kg in the ratio 1:4. Which year is MDCXXXII?	b 200 f2.80	0.1 72cm 1.4 2.4kg 1632
1 2 3 4 5 5 6 6 7 8 9 11 V a	Write as a fraction in its simplest form. a \frac{4}{1000} \text{b} \frac{45}{1000} \text{c} \frac{28}{1000} \text{a} \frac{1}{250} 1kg costs \frac{f}{2000} \text{c} \frac{1000}{1000} 1kg costs \frac{f}{2000} \text{d} 1005. How many centimetres remain when 268cm are taken from 3.4m? Write to the nearest second decimal place. 353.176 b 24.694 Find the mean of 1.1, 2.3 and 0.8. Share 3kg in the ratio 1:4. Which year is MDCXXXII? Find the area in cm² of a square of side 11cm. Which two numbers have a sum of 20	b 200 f2.80 f2.80 a 53.18 b 24.69	0.1 72cm 1.4 2.4kg 1632

	10					-	Answer	
0	1							
1 8		is 1.2 million. Th 1 207 806. Find						780
)	2	Two parcels tog 18.5kg. One of the other. Find t	them is	4kg he	avier tha	an I.	7.25kg	11.25kg
1	3	Which of these scircular face who a rectangular face	en cut h	orizon	tally, and	1		cylinder
		sphere	cone		cylinder			- Timaei
	4	In a class of 30 cl Write the numbe	nildren r absen	12 wer t as	e absent	٠		
		a a fraction in its	simple	st form		а	2 5	
		b a ratio.				b	2:5	
	5	A bagel costs 35p bought for £7.00	. How r	many c	an be			70
	6			1010				20
	0	/ /	W	rhom is an	Z is a bus. WX isosceles gle. Find			
	7		68°\	a ∠	WYZ	а		112°
	2	Y	X	bZ	VWY	b		68°
				c _ Z	VW.	С		112°
	S	om has 95p and S low much must To o that each has th	om give e same	to Sop amour	hie nt?			11p
	8 If	1 July falls on a T aturdays will there	hursday be in t	how r	many onth?			5
	-	ne child in every f 00 walks to school	l.		l of			
	а	What percentage to school?	do not	walk				
	b	How many walk	to scho	-12		a		75%
						b 50		-
	(5)	rite the coordinat , 5) when reflecte	es of the	e point x-axis.		(3,	-5)
0	11)		circle is Find th	e area	n².			
	/	240°	of the sector.	shaded			107	cm²
1.	2							
17.4		50	111	The g				
	inkr	10		shows				
	0	20		car. U	se the			
		0		graph the tir	to find			
	(0 10 20 30 40	50.00	taken	by			
		Time in minut	es	the ca			30n	nin

Time in minutes

travel 40km.

30min

A	Answer
1 £1.20 × 3½ =	£4.20
2 261 + 3.36 =	3
3 2.25ml - (250ml × 6) = mt	750m
4 30 + 25 =	30
5 1200km – (320km + 280km + 335km) =	
6 3 ½ = %	= 265km
b 3 = %	a 12.5%
	b 37.5%
7 9.8 ÷ 4 =	2.45
8 f5.00 - f = f2.82	£2.18
9 $f6 \times \frac{2}{5} =$	£2.40
10 $9x = 33 + 48$. Find the value of x.	
	9
Find the cost of 30cm at £1.80 per metro	e. 54p
$\frac{12}{7}$ of 4kg 60g = $\frac{1}{2}$ g	580g
В	Answer
1) Add $\frac{3}{4}$ of 28 to $\frac{7}{8}$ of 56.	70
$2 (4 \times 10^3) + (2 \times 10^2) =$	4200
3 Increase £3.00 by 7%.	£3.21
4 Write $\frac{3}{8}$ as a decimal fraction.	0.375
5 Find the total mass in kilograms of	
these amounts of water.	6.195kg
2.7l 95ml 3.4l	
6 One pear costs 17p. Find the cost of	a £1.70
a 10 b 1000.	b £170
7 A rhombus has an area of 100cm². Its base is 5cm. Find its height in millimetres.	200mm
8 Approximate 4635000 to	
a the nearest 1 000 000	a 5000000
b the nearest 100 000.	b 4600000
	MCMXVI
9 Write the year 1916 using Roman numerals.	IVICIVIAVI
 Write the year 1916 using Roman numerals. Find the difference in hundredths between 100 x 0.016 and 100 x 0.017. 	10 hundredths
Roman numerals. 10 Find the difference in hundredths	
Roman numerals. 10 Find the difference in hundredths between 100 × 0.016 and 100 × 0.017.	
Roman numerals. 10 Find the difference in hundredths between 100 × 0.016 and 100 × 0.017. 11 Express 43 ÷ 5 as	10 hundredths

(100000	Answe	,
0	A cask holds 20.751 of the cask when en mass of the cask wh	apty is 850a. Find th		21.6kg
2		A is the centre of the circle.		
	110°	a Name the triang ABC by its sides.		les
		b Calculate the angle at B.	b	35"
3	Six pairs of socks cos the nearest penny th of socks.	it £8.37. Find to e cost of one pair	£1.40	
4	There are 4.545l of s container. The shamp weeks. How many m on average per week	ooo lasts for nine illilitres are used		505ml
5		There was 87p change from £3 aft buying the multipack. Find the cos	er	
		of each bottle.		71p
6	Find in litres the volur	ne of		
	a one multipackb eight multipacks.		a	2.461
			b	19.681
7	A map is drawn to a s How many metres are map by a line 14mm l	represented on a		1400m
8		Find		
	Born Born	a the area of the triangular end of the prism	a 12cm²	
	4cm	b the volume of the prism	. b 96cm ³	
9	on a four-hour journey	of 312km.		
	a How many litres we the journey?	re used on	а	391
	b What was the avera	ge speed?	b	78km/h
10	The price of a pair of s increased by £1.25. We as a percentage.			5%
11		Write the proportion of shaded squares	1	
		a as a fraction in its simplest form	a 3 10	
		as a decimal.	b 0.3	
	Matthew arrived at a h and left on 3 Novembe for the room was £10.5	r. The charge 50 per night.	£52.50	
	What was the total cos	t of the room?	£52.50	

2E	CTION 3 Test 11	
A		Answer
1	2.999 + 0.1 =	3.099
2	$\frac{40}{45} \div 8 =$	1 9
3	6.25% of £4.00 = p	25p
4	£3.24 = × 2p	162
	86.6 × 200 =	17320
	5.2l – 480ml = 10 l	4.721
	5x = 28.2. Find the value of x .	5.64
	11 730 ÷ 25 = 469 r	469 r5
9	f2.78 + f2.78 + f2.78 + f2.78 + f2.78 =	£13.90
10	$4kg \times \frac{3}{m} = 1500g$	8
11	40cm cost 50p. Find the cost per metre.	£1.25
12	Subtract 6 from –3.	
В		Answer
	a f1.32 × 4 =	a f5.28
	b f1.32 × 16 =	b £21.12
2	What must be added to $2\frac{5}{8}$ to make $4\frac{1}{2}$?	17/8
3	Find 8.5% of £10.	85p
4	The perimeter of a rectangle is 30m. The width is 6.5m. Find its length.	8.5m
5	Divide £162 in the ratio 5:4.	£90 £72
6	1000 bags of crisps cost £154.00. Find the cost of one bag of crisps to the nearest penny.	15p
7	How much less than 20 is the product of 1.7 and 9?	4.7
8	How many thousandths in $\frac{1}{4}$ of 0.02?	5 thousandths
9	Find the difference in millimetres between 0.7m and 369mm.	331mm
10	Write 150ml of 750ml as	
	a a fraction in its simplest form	a 1/5
	b a percentage.	b 20%
11	Round these amounts to the nearest £1 and then find the approximate answer.	
	£16.70 + £12.95 + £9.28	£39
12	If 5 miles is about 8km, about how many kilometres is 17.5 miles?	28km

					5	schofie	eld & Sim
C	TO USE			Mark.	Ar	iswer	398
1)	3.468 × 6 a to three decidents		the ansv	ver .	a	20.80	8
	b to two decim	al place	25		b	20.81	
	c to one decim	al place	2.		C	20.8	
2	The contents of were 51, 46, 49 Find the mean of	and 54	1.	weets			5(
3		850m	a field. area in				35000m
4	A crate of 240 e school kitchen. broken. What p	12 of th	ne eggs v	ed to a vere	a		5%
	a broken b	not bro	ken?		b		95%
5	$F = \{1, 2, 3, 6, 1\}$ F = the set of fa Find the missing	ctors of	f 78.			13	26 39
6	Find each missir	g mass	+				
	mass of onions	450g	1.75kg	zkg	X		1850
	mass of box	xg	750g	150kg	У		2.5kg
	total mass	635g	ykg	1.1t	Z		950kg
7	A camera costs in nine equal inseach payment.				of	.50	
8	1		This is a				770
	(a) b)		pentago in degree				72°
	1/3/		measure	ment of	4		54°
	V VC		∠ a, ∠ b	, ∠ C.	_	C	12
9	1g = 1000mg Each chocolate a Write the man	co ch nas a m		00 00mg.			
	in grams.	ss or ea	cn choco	late	a	0.5	ig or ½g
	b Find in grams the chocolate	the tot	al mass o	of	b		60g
10	4cm	-	For the shape fi	nd			
	4cm	A	a the ar			12cm ²	
	2cm	Zcm	b the p	erimeter.	b	20cm	
(11)	A wall 3m high covered in wallp length in metres	aper 50	cm wide	. What			24m

12 Find the cost per kilogram of 1.5kg of ice cream costing £3.18.

£2.12 per kg

A	Answer
1 (268 + 232) - 350 =	150
2 2640000 = million	2.64 million
3 50p - (17p + 16p + 9p) =	8p
4 3.5m – 175cm = cm	175cm
5 $\frac{2}{21} = \frac{2}{3}$. Find the value of x.	14
6 Find the cost of 750ml at £4.80 per litre.	f3.60
7 16 r 4 Find the value of y.	132
8 4×18×50=	3600
9 $\frac{6}{8} \div 12 =$	1 16
10 (12% of £5) + (8% of £5) =	£1.00
11) $7\frac{1}{4}l \div = 725ml$	10
12 \$0.14 × 15 =	\$2.10

В		Answer
1	Find in centimetres the perimeter of an equilateral triangle with sides measuring 96mm each.	28.8cm
2	Write the 24-hour clock time which is 1h 24min after 22:57.	00:21
3	How many times is 800g contained in 3.2kg?	4
4	Divide £85 by 6	
	a to the nearest 10p	a £14.20
	b to the nearest penny.	b £14.17
5	The total of two amounts is £12 and their difference is £3.60. Find the two amounts.	£7.80 £4.20
6	Find the difference in thousands between (1×10^5) and (9×10^4) .	10000
7	Write $3\frac{1}{2}$ % as a decimal.	0.035

£3.81

£15.60

MCCCXLIX

200000

15.42cm

8 Multiply £2.54 by 1.5.

Roman numerals.

10 Increase £15 by 4%.

Write the year 1349 using

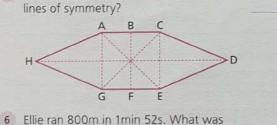
12 The diameter of a circle is 6cm.

11 Write the scale 1cm to 2km as a fraction.

Its circumference is 3.14 times greater.

What is the perimeter of the semicircle?

C		Answer	
		Aliswei	
1	Find the cost per kilogram of		
	a shampoo costing £1.09 for 500g	a £2.18	
	b conditioner costing £1.26 for 600g.	b £2.10	
2	A 50p coin has a mass of 13.5g. What is the mass of £10 worth of 50ps?		270g
3	Write the length of a line 100 times the length of the line AB		
	a in millimetres	a	5500mm
	b in centimetres	b	550cm
	c in metres.	C	5.5m
	mm 10 20 30 40 50		1
	A	В	
4	On a plan of a house the living room measures 44mm long and 40mm wide. The scale of the plan is 1cm to 1m. Find in m ² the area of the living room.		17.6m ²
5	Which of the dotted lines are		



	tier average time per room:
7	On a five-day holiday George walked
	14.75km, 13.76km, 12.29km, 10.15km
	and 9.32km. Round each distance to the

and 9.32km. Round each distance to the nearest kilometre and find the approximate mean distance walked daily.

Y 36° 6	The circumference of the circle is 420mm. Find the length of the arcs of		
	a sector Y	a	42mm
	b sector Z.	b	70mm

9 Lemonade can be made of water and lemon juice in the ratio 4:1. How many litres of water are mixed with half a 50l cask of lemon juice?

10	Find	the	mean	daily	temperature.

Mon	Tues	Wed	Thurs	Fri
5°C	3°C	0°C	-1°C	-2°C

- 11 The point (3, 5) is translated two squares to the left and four squares down. The new point is then reflected in the *y*-axis. What are the coordinates of the reflected point?
- 12 These are the results of three tests. Write each as a percentage.

 a $\frac{18}{25}$ b $\frac{30}{40}$ c $\frac{10}{30}$

a 72% b 75%

(-1, 1)

BF

HD

145

12km

1001

1°C

CHECK-UP TEST | Number

(a) 12 - 7 =	- 5	53 + 7 = .	71 4
9+4=	13	$(6 \times 8) + 5 =$	53
3×6=	18	70 + 8 = .	8r 6
63 + 9 =	7	$(4 \times 9) + 7 =$	43
6+9=	15	52 + 6 = .	8r 4
7 × 8 =	56	$(7 \times 0) + 3 =$	3
11 - 7 =	4	4 + 9 = .	0.r. 4
24 + 3 =	8	$(8 \times 1) + 6 = $	14
5+8=	13	61 ÷ 7 = .	8r 5
0 ÷ 7 =	- 0	$(9 \times 4) + 5 =$	41
8×6=	48	77 × 10 =	770
64 + 8 =	8	135 ÷ 10 =	13 r 5
9×3= _	27	35 × 20=	700
13 - 7 =	6	204 ÷ 20 =	10 r 4
7+8=	15	96 × 30=	2880
15 - 9 =	6	156 ÷ 40=	3 r 36
0 × 8 =	0	108 × 60=	6480
4+6=	10	302 ÷ 60=	5 r 2
40 + 8 =	5	88 × 70 =	6160
16 - 7 =	9	463 ÷ 90=	5 r 13

3	Write these numbers in digits.	
9	forty thousand and nine	40 009
	eighty-one thousand two hundred and five	81205
	two hundred and ten thousand four hundred	210 400
	five hundred and six thousand and seventy	506070
	700000 + 1000 + 90 + 5	701095
	(4 × 10 000) + (8 × 100) + 9	40809
	1 milion	1000000
	1 ³ / ₄ million	1750000
	2.6 million	2600000
	$(6 \times 10^3) + (3 \times 10^2) + (0 \times 10)$	6300
	$(9 \times 10^4) + (7 \times 10^3) + (1 \times 10^2) + (3 \times 10)$	97 130
	Write the answers to these as decimals.	
	206 tenths	20.6
	1509 thousandths	1.509
	eighteen hundredths	0.18
	$17 + \frac{5}{10} + \frac{3}{1000}$	17.503
	$10 + \frac{6}{100} + \frac{7}{1000}$	10.067
	$\frac{27}{100} + \frac{8}{1000}$	0.278
	$60 + \frac{57}{1000}$	60.057

0	Write in digi	ts the number which is		
_	forty less tha	an ten thousand		9960
		x two more than ten		10.62
		less than fifty-five tho	usand	54500
		even less than two hund		197.3
	Write in wor	rds the value of the dig	it underlined	
	37908			seven thousand
	1604326		51	ix hundred thousand
	9.084			eight hundredths
	20.502			two thousandths
	7.9 =	79 tenths	20.6 =	206 tenths
	0.75 =	75 hundredths	3.09 =	309 hundredths
	0.018 =	18 thousandths	10.06 = _	10060 thousandths
	5.9 =	5900 thousandths	0.003 =	3 thousandths
	Write these of the num	numbers, omitting the ber.	zeros which	do not alter the value
	17.09	17.09	8.070	8.07
	020.60	20.6	30.020	30.02
	002730	2730	106.00	106

0	3.46 + 5.04 =	8.5	30.08 × 10 =	300.8
-	5.16 + 3.8 =	8.96	2.017 × 100 =	201.7
	1.99 + 2.01 =	4.00	0.063 × 1000 =	63
	0.76 + 0.493 =	1.253	3 × 7.8 =	23.4
	2.83 + 7.178 =	10.008	0.09 × 6 =	0.54
	3.92 - 1.9 =	2.02	6.075 × 8 =	48.6
	6.1 - 0.7 =	5.4	10.3 ÷ 10 =	1.03
	10.0 - 9.348 =	0.652	3.7 ÷ 100 =	0.037
	7.2 - 0.09 =	7.11	46 ÷ 1000 =	0.046
	8.63 - 3.58 =	5.05	18.36 ÷ 6 =	3.06
	5.825 - 0.06 =	5.765	2.43 ÷ 9 =	0.27
	Find the value of	f x.	14.091 ÷ 7 =	2.013
	x + 19 = 54	35	Find the value of	X.
	3.2 + x = 10	6.8	$10 \times x = 3.65$	0.365
	52 - x = 18	34	$x \times x = 36$	6
	x - 4.05 = 3.6	7.65	7x = 108.5	15.5
	2.3 + x = 20	17.7	5 = 12.8	64
	x = 17.2 - 5.5	11.7	72 = 9	8

)	Approximate to the ne	arest:			
	hundred thousand	1.37 million		1.4	million
	thousand	79 464			79000
	hundred	23086			23 100
	whole number	a 16 ¹ ₃	16	b 29.52	30
	first decimal place	10.38			10.4
		5.94			5.9
	second decimal place.	0.025			0.03
		13 004			13.00

)	Work out these divisions a to 2 decimal places then b approximate the answer to the	ne nearest first d	ecimal place
	39 ÷ 8 =	a 4.88	b 4.9
	5.5 + 3 =	a 1.83	b 1.8
	14.6 + 7 =	a 2.09	b 2.1
	Work out these divisions a to 3 decimal places then b write the answer correct to 2 58 ÷ 6 =	decimal places.	b 9.67

a 3.807

b 3.81

34.26 + 9 =

CHECK-UP TEST | Measurement

A Find the total of each row of coins.

50p	20p	10p	5p	2p	1p	Total
	2	3	4	6		£1.02
2	5	9			13	£3.03
	7		5	8		£1.81
		17	8		12	£2.22
1	3	6		10		£1.90
5	4	7	12			£4.60
11					23	£5.73

B Find a the total cost of the items bought and b the change

money given	cost of items bought	total cost	change
50p	9p, 8p, 18p	35p	15p
four 10ps	5 at 7p each	35p	5p
£1	23p, 18p, 40p	81p	19p
£1 and 50p	3 at 38p each	£1.14	36p
£2	10 at 18p each	£1.80	20p
£5 note	£2.75, £1.28	f4.03	97p

0	55cm =	0.55m	20.7cm =			207mm	Find the cost of:	
	7 for 10p for £3.30?	231	40 cost £6	6.80	100 cost	£17.00	\$43.45 ÷ 5 =	\$8.69
	5 for 6p for £1.62	135	1 costs	17p	9 cost	£1.53	£27 ÷ 4 =	£6.75
	20p for £25.20	126	5 items cos	st 85p			£3.04 ÷ 8 =	38p
	50p for £18.50	37	3 cost	54p	7 cost	£1.26		
	5p for £2.05	41			7 cost	£1.26	£5.78 × 6 =	£34.68
	3p for £1.74	58	8 items cos	t £1 11			f2.08 × 9 =	£18.72
	2p for 98p	49	5 cost	90p	1 costs	18p	19p × 7 =	£1.33
	How many items each costing		20 items co	ost £3.60			€6.03 - €1.89 =	€4.14
	£4.25 = seven 50ps + 5ps _	15	10 cost	23p	30 cost	69p	f4.00 - f1.68 =	£2.32
	£2.80 = eight 5ps + 20ps	12	100 items o				f1.36 – 87p =	49p
	£1.70 = two 10ps + 50ps	3	100 :			310		
	f0.85 = 50p + 5ps	7	1 costs	12p	7 cost	84p	f1.06 + f3.70 + f0.28 =	£5.04
0	£0.39 = 5ps + seven 2ps	5	10 items co	ost £1.20			39p + 57p + 41p =	£1.37

D 55cm =	0.55m	20.7cm =	207mm	Find the cost of:	
309mm=	30.9cm	3.45m =	345cm	100g at 70p per kg	7p
5040mm =	5.04m	10.6m =	10600mm	400g at 45p per kg	18p
1095cm =	10.95m	0.085km =	85m	250g at £1.10 per $\frac{1}{2}$ kg	55p
300m =	0.3km	7.5km =	7500m	3.5kg at 18p per $\frac{1}{2}$ kg	£1.26
2805m =	2.805km	4.285km =	4285m	450g at 70p per ½kg	63p
5000m =	5km	0.065kg =	65g	75cm at £3.00 per m	£2.25
90g =	0.09kg	8.11kg =	8110g	10cm at £2.90 per m	29p
875q =	0.875kg	5.4l =	5400ml	20cm at £4.20 per m	84p
3500g =	3.5kg	0.75l =	750ml	1.25l at 36p per ½l	90p
120ml =	0.121	4.5l =	4500cm ²	900ml at 60p per l	54p
650ml =	650cm ³	2.0081 =	2008cm ²	6.5m² at £4.50 per m².	£29.25

Fill in the missing times.

12-hour clock time	24-hour clock time
10.35 p.m.	22:35
4.10 a.m.	04:10
12.05 a.m.	00:05
11.55 p.m.	23:55

How many hours and minut	tes betwee	n
8.45 a.m. and 11.20 a.m.	2h	35min
10.25 a.m. and 1.05 p.m.	2h	40min
9.38 p.m. and 2.10 a.m.	4h	32min
11:50 and 13:15	1h	25min
06:19 and 10:20?	4h	1min

How many days inclusive	
from 28 March to 7 April	11
from 13 May to 4 June	23
from 15 July to 3 August	20
from 24 September to 8 November	46
from 19 October to 10 December?	53

•	Approximate to the	ne nearest:				centimetre	0.837m	84cm
	f1 a f12.09	£12.00	b £3.52	£4.00		metre	305.6cm	3m
	10p a £2.37	£2.40	b £10.06	£10.10		kilogram	9kg 550g	10kg
		200,100				litre	6.325l	61
	Write the answer	to the nearest penny.				½ kilogram	7.750kg	8kg
	a 1/3 of £7.00	f2.33	b £3.10 ÷ 7		44p	hour	2h 29min	2h
	c 1/8 of £17.25	62.16	d 1/4 of £3.95		99p	½ hour	4h 21min.	42h

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

	a 4/5	0.8	b ½ _	0.17	C 2/3	0.67	$d\frac{7}{8}$	C	0.88	e 5	0.71
B	$\frac{1}{3} + \frac{1}{2} = \frac{1}{4} + \frac{1}{6} = \frac{5}{8} + \frac{3}{4} = \frac{3}{10} + 1\frac{1}{2} = \frac{1}{10}$		$\begin{array}{c c} 5 & \frac{1}{2} - \frac{1}{6} \\ \hline 5 & \frac{3}{12} & \frac{3}{4} - \frac{3}{3} \\ 18 & 3 - 1 \\ 15 & 2\frac{1}{4} - \end{array}$	7	1 1 12 5 112 3 8	$\frac{2}{3} \times 12 = 10 \times 1\frac{2}{5} = 1\frac{7}{10} \times 20 = 40 \times \frac{3}{8} = 10$		8 14 34 15	Express 137 10 93 ÷ 8 124 ÷ 9	as mixed nu	13 ⁷ / ₁₀ 11 ⁸ / ₁₃ 13 ⁹

0	Write eac	ch fraction in it	s simplest form a	s a percenta	ge.		74		30	
	a 12 20	60%	b 28/40	70%	C 45	45%	d 24/32	75%	e 30 50	60%
		ch of these sca	les as a fraction.							1
			1	b 1	m to 5m		500	c 1cm to 1km		100000

b 1cm to 5m

Fill in the table. The first example is done for you.

a 1mm to 20cm

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

	fraction (simplest form)	percentage (%)	ratio
50cm of 2m	1/4	25%	1:4
750g of 1.5kg	1/2	50%	1:2
250 of 400	<u>5</u> 8	62.5%	5:8
35p of £5	7 100	7%	7:100

8 cost £10. What fraction of £10 do

2m, ratio 5:3

3 cost	3 8	7 cost?		7 8
5 cost £7. What f	raction of :	E7 do		
2 cost	2 5	8 cost?		8 5
10 cost £3.50. W	hat fraction	n of £3.50 do		
9 cost	9 10	15 cost?		3 2
Share each quant	ity in the g	iven ratio.		
£30, ratio 3:2		£18	£12	
1.75kg, ratio 4:1		1.4	1kg 35	0g

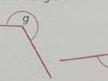
Find the value of $\frac{3}{10}$ of £1.60 48p 0.75 of 600 450 60% of $\frac{1}{2}$ kg 300g 0.9 of 21 1.81 50% of 3m 70cm 1m 85cm 100 of 1kg 30g 0.95 of 10000 9500 17% of £3.00 51p \$ of 1.8kg. 1kg

0.25 is £3.50	£14	
3/4 is 57cm	76cm	
10% is 850g	8.5kg	
0.6 is 42p	70p	
$\frac{5}{8}$ is 2.5kg	4kg	
30% is 1.8l	61	
0.375 is 300	800	
$\frac{7}{10}$ is 91p	£1.30	
5% is 200g.	4kg	

Estimate which of the angles marked a - h is:

a right angle a reflex angle of 300° an acute angle of 80° a reflex angle of 240°

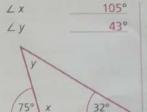
an obtuse angle of 130°



LX

Find the angle marked x and/or y in each shape.

LX



Ly

125cm

75cm

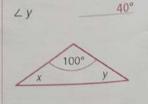
35°

55°

115° 120°

115° LX Ly 65° /115°

b



40°

Fill in the table for regular polygons.



name of regular polygon	number of sides	angle at centre
hexagon	6	60°
octagon	8	45°
pentagon	5	72°

What fraction of the circumference is the arc xy in circle A, circle B?

