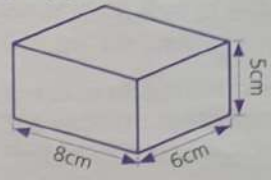


A Answer

- $5.305 = 5 + \frac{\square}{1000}$ _____ 1000
- 10% of sixteen thousand = _____
- $4.375\text{kg} = \square \text{ g}$ _____ g
- $\pounds 2 - (27p + 65p) = \pounds \square$ _____ \pounds
- $2\text{ l } 450\text{ml} - 0.5\text{ l} = \square \text{ ml}$ _____ ml
- $0.4 + \square = 0.476$ _____
- $\pounds 1.76 \times 5 =$ _____ \pounds
- $0.75\text{km} = \square \text{ m} + 325\text{m}$ _____ m
- $\frac{x}{100} = 13.07$ Find x . _____ 100
- $38\text{min} + 2\text{h} + 47\text{min} = \square \text{ h } \square \text{ min}$ _____ h _____ min
- a 10% of $\pounds 20.40 =$ _____ a \pounds
b $2\frac{1}{2}\%$ of $\pounds 20.40 =$ _____ b \pounds
- $\frac{1}{6}$ of $45\text{cm} = \square \text{ mm}$ _____ mm

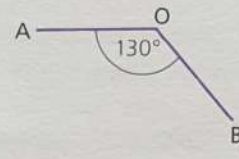
B Answer

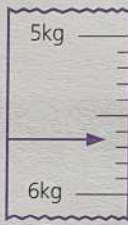
- Which of these numbers are factors of 75?
5 6 3 7 9 _____
- Find the mean of 3, 1.4, 2 and 2.6. _____
- Write a $\frac{47}{8}$ as a mixed number _____ a
b $5\frac{5}{6}$ as an improper fraction. _____ b
- What is the cost of 400g at $\pounds 1.50$ per $\frac{1}{2}\text{kg}$? _____ \pounds
- By how many is 450×1000 less than $\frac{1}{2}$ million? _____
- By how many degrees does the temperature fall from 8°C to -5°C ? _____ $^\circ\text{C}$
- 25% of Max's money is $\pounds 35$. Find the whole amount. _____ \pounds
- Approximate to the nearest whole number.
a 79.63 _____ a
b 12.475 _____ b
- By how many millimetres is 95.4cm less than 1m? _____ mm
- Find the least number of pennies which must be added to 92p to make the amount exactly divisible by 6. _____
- What percentage of 2l is
a 400ml _____ a %
b 100ml? _____ b %



Find the volume of the box in cm^3 . _____ cm^3

C Answer

- By how many thousandths is 1.057 less than 2? _____ thousandths
- 

By how many degrees is the reflex angle at O greater than the obtuse angle at O? _____ $^\circ$
- Ellie spends $\frac{1}{2}$ of her money on bus fares and $\frac{5}{12}$ on sweets. What fraction of her money is left? _____
- A cyclist travelled at 24 km/h for $\frac{1}{4}$ hour. How far did she travel? _____ km
- 

Read as accurately as possible the mass shown by the pointer. Write the answer in grams. _____ g
- The population of Town A is a quarter of a million. The population of Town B is fifty thousand less than Town A. What is the population of Town B? _____
- How much change is there out of $\pounds 15$ after spending $\pounds 9.50$ and $\pounds 3.20$? _____ \pounds
- Write these decimals in ascending order.
5.03 0.35 0.5 3.05 3.5 _____
- A bus runs at intervals of 25 min. What are the times of the next two buses after 08:15? _____
- Buy today for $\pounds 60$ or pay 10% weekly for 12 weeks

By how much is it cheaper to pay today? _____ \pounds
- A rectangular path is 9m long and 80cm wide. Find its area in m^2 . _____ m^2
- Ravi is given $\pounds 85$ as birthday gifts. He spends 30% and saves the remainder.
a What percentage does he save? _____ a %
b How much money does he spend? _____ b \pounds

A	Answer
1 Write in digits six hundred and two thousand five hundred and eight.	_____
2 $£0.27 \times 40 =$	£ _____
3 $\frac{2}{3}$ of 960 =	_____
4 a 1% of £17 = \square p	a _____ p
b 7% of £17 = £ \square	b £ _____
5 10.06 = \square thousandths	_____ thousandths
6 $£2.30 =$ three 50ps + two 20ps + \square 10ps	_____ 10ps
7 $3\frac{3}{4} \times 4 =$	_____
8 $180^\circ - (72^\circ + 36^\circ) =$	_____ $^\circ$
9 300g + 450g + 350g = \square kg	_____ kg
10 2h 15min - 50min = \square h \square min	_____ h _____ min
11 27cm \times 7 = \square m \square cm	_____ m _____ cm
12 $\frac{£16.56}{8} =$	£ _____

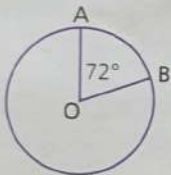
B	Answer
1 By how many is 0.3 million less than $\frac{1}{2}$ million?	_____
2 What length in metres is 6 times 7m 30cm?	_____ m
3 How many times is $2\frac{1}{2}$ contained in 50?	_____
4 Find the total of 17p, 53p, 24p and 7p. Write the answer in £s.	£ _____
5 Write the 24-hour clock time which is 7h before 4.35 a.m.	_____
6 What fraction in its simplest form is equal to	
a 8%	a _____
b 35%?	b _____
7 By what quantity is 920ml less than 1.2l?	_____ ml
8 Increase £30.50 by 10%.	£ _____
9 If the distance from A to D is 14km, find the distance from B to C.	_____ km
10 Find the cost of 0.3m at £4.80 per metre.	£ _____
11 The perimeter of a rectangle is 65cm. Its length is 24cm. Find its width.	_____ cm
12 10 doughnuts cost £2.09. Find the cost of one to the nearest penny.	_____ p

C	Answer						
1 How many envelopes costing 3p each can be bought for £2.40?	_____						
2 ABCD is a parallelogram. Find in degrees							
a $\angle BAD$	a _____ $^\circ$						
b $\angle ABC$	b _____ $^\circ$						
3 Share £5 between Henry and Amy so that Henry has 6p each time Amy has 4p. How much does each have?							
Henry	£ _____						
Amy	£ _____						
4 A man walked steadily at 4km/h from 11.00 a.m. to 2.30 p.m. How far did he walk?	_____ km						
5 From the largest of these decimal fractions take the smallest.							
0.33 0.3 0.03 0.333							
6 1cm ³ or 1ml of water has a mass of 1g. A jar holds $3\frac{1}{2}$ l of water. Find							
a the volume of water in cm ³	a _____ cm ³						
b the mass of the water in kg.	b _____ kg						
7 How much is saved by buying 15kg at 16p per kilogram, instead of the same mass at 9p per $\frac{1}{2}$ kg?	_____ p						
8							
<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;"></th> <th style="padding: 5px;">Date of birth</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Riaz</td> <td style="padding: 5px;">1.3.96</td> </tr> <tr> <td style="padding: 5px;">Sophie</td> <td style="padding: 5px;">1.10.94</td> </tr> </tbody> </table>			Date of birth	Riaz	1.3.96	Sophie	1.10.94
	Date of birth						
Riaz	1.3.96						
Sophie	1.10.94						
Find the age on 1 September 2010 in years and months of							
a Riaz	a _____ yr _____ mth						
b Sophie.	b _____ yr _____ mth						
9 The area of a hall is 60m ² . Its length is 8m. Find							
a its width	a _____						
b its perimeter.	b _____						
10							
a What fraction of the circumference of the circle is the arc AB?	a _____						
b If the circumference measures 188.4cm, find in millimetres the length of the arc.	b _____ mm						
11 Cheese costs £2.60 per $\frac{1}{2}$ kg. Find the mass in kilograms and grams of cheese which costs £7.80.	_____ kg _____ g						
12 Box A measures 8cm long, 9cm wide, 4cm high. Box B measures 10cm long, $5\frac{1}{2}$ cm wide, 6cm high. Find the difference in their volumes.	_____						

A Answer

- $10 \times 10 \times 10 \times 10 \times 10 =$ _____
- $67p \times 6 = \text{£}$ _____ £ _____
- $(49 + 8) = 100 -$ _____
- 90% of $\text{£}300 =$ _____ £ _____
- $5l \div 8 =$ _____ ml
- $10 - 7\frac{3}{10} =$ _____
- $0.246 = 2$ tenths + _____ thousandths _____ thousandths
- a $\frac{3}{25} =$ _____ %
b $0.07 =$ _____ %
- $1.25\text{kg} - 600\text{g} =$ _____ g
- nine 5ps + three 2ps + three 20ps = £ _____ £ _____
- $\frac{3}{4}$ of $3.6\text{cm} =$ _____ mm
- $2\text{h } 49\text{min} + 53\text{min} =$ _____ h _____ min

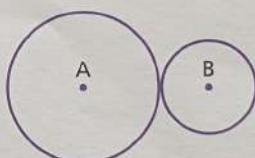
B Answer

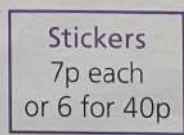
- By how many is 90200 less than one hundred thousand? _____
- Find the total number of days in February, March and April in a leap year. _____ days
- 

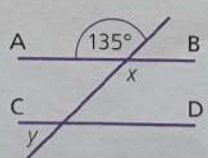
How many degrees in the reflex angle AOB? _____ °
- Find the cost of 90cm of cloth at $\text{£}3.70$ per metre. _____ £
- How many times is 400g contained in 2.4kg? _____
- Of these numbers which is the smallest?
1.11 1.01 1.111 1.1 _____
- What is the difference in millilitres between 2.8l and 3.7l? _____ ml
- Write as a fraction in its lowest terms.
a $\text{£}4.50$ of $\text{£}18$ a _____
b 5min of 1h b _____
- A strip of plastic 4m 200mm long is cut into seven equal pieces. Find in millimetres the length of each piece. _____ mm
- Approximate
a $\text{£}29.50$ to the nearest £ a £ _____
b $\frac{99}{2}p$ to the nearest 1p. b _____ p
- $\frac{93}{5}$ p Find the sum of money which was divided by 5. £ _____
- The diameters of two circles are 9.4cm and 15.8cm. What is the radius of each circle in millimetres? _____ mm _____ mm

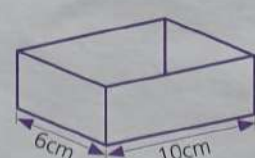
C Answer

- Which numbers below 50 have both 2 and 7 as factors? _____
- What is the date of the third Wednesday in July if 1 July is a Sunday? _____
- | June | July | Aug | Sept |
|------|------|------|------|
| 40mm | 23mm | 42mm | 35mm |

The monthly rainfall is given in millimetres. Find the mean rainfall for all four months. _____ mm
- 60kg of mortar is mixed from 4 parts of sand and 1 part of cement. Find the mass used of a sand _____ kg
b cement. b _____ kg
- Write this number in words.
 $(7 \times 10^3) + (1 \times 10^2) + (9 \times 10)$ _____
- How many degrees are there in a turn from W to SE
a clockwise a _____ °
b anticlockwise. b _____ °
- 

The diameter of circle A is 9.4cm. The diameter of circle B is 5.8cm.
How far apart are the two centre points in millimetres? _____ mm
- a Find the area of a square with 5cm sides. a _____
b How many times greater is the area of a square with sides double that length? b _____
- 

How much money is saved by buying 24 stickers in groups of six? _____ p
- 

AB and CD are parallel lines. Find
a angle x a _____ °
b angle y. b _____ °
- Grace won a prize of $\text{£}800$ which she deposited in a bank at an interest rate of 5%. How much interest did she receive at the end of 1 year? £ _____
- 

a How many cm cubes can be fitted into the bottom of the box? a _____
b If the volume of the box is 240cm^3 , find its height. b _____ cm

A Answer

- $55 + 17 = \square \times 9$ _____
- $\pounds 0.95 = 50\text{p} + 20\text{p} + \square \text{ 5ps}$ _____ 5ps
- $2.3\text{m} - 90\text{cm} = \square \text{ cm}$ _____ cm
- $1\,000\,000 = \square \text{ thousands}$ _____ Th
 $= \square \text{ hundreds}$ _____ H
- $380\text{g} \times 9 = \square \text{ kg}$ _____ kg
- $7 \times y = 7532$. Find y . _____
- a 10% of $\pounds 27 = \pounds \square$ a \pounds _____
 b 1% of $\pounds 27 = \square \text{ p}$ b _____ p
- $\frac{1}{2} + \frac{3}{8} + \frac{3}{4} =$ _____
- $2.05\text{l} + \square \text{ ml} = 2\frac{1}{2}\text{l}$ _____ ml
- $360^\circ - (75^\circ + 80^\circ + 130^\circ) =$ _____ $^\circ$
- $\frac{5}{6}$ of $\pounds 90 =$ \pounds _____
- $4.07 \times 8 =$ _____

B Answer

- Which of the numbers are multiples of 4, 6 and 9?

24	36	54	60	72
----	----	----	----	----

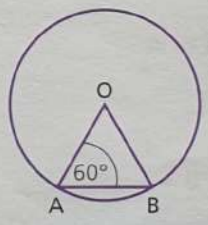
- How many kilometres are there in seventeen hundred metres? _____ km
- Decrease $\pounds 44$ by 10% . _____ \pounds
- How many hours and minutes from 09:48 to 11:19? _____ h _____ min
- What fraction in its simplified form is

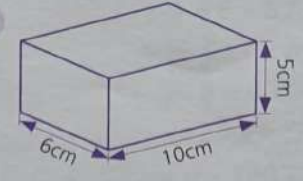
	a the patterned part	a _____
	b the shaded part	b _____
	c the unshaded part?	c _____
- Find the cost of 2.25l at 28p per litre. _____ p
- How many biscuits each costing 7p are bought for $\pounds 2.73$? _____
- Write each score as a percentage.
 a 18 out of 20 a _____ %
 b 35 out of 35 b _____ %
- Five oranges cost 80p. What fraction of 80p will three oranges cost? _____
- By how many is 300 050 greater than $\frac{1}{4}$ million? _____
- Find $\frac{1}{5}$ of $\pounds 1.68$ to the nearest penny. _____ p
- Find in cm^3 the volume of a box 15cm by 10cm by 7cm. _____ cm^3

C Answer

- Find the missing numbers in this sequence.
 $0.125, 0.25, 0.375, \square, \square$ _____
- What number when added to 48 three times gives a total of 120? _____
- A fruit cake has a mass of 1.5kg. If 40% of the mass is fruit, find the mass of the fruit in grams. _____ g
- A line 8cm long is drawn to the scale 1mm to 0.1m. What length does the line represent? _____ m
- Which of these fractions is less than $\frac{1}{4}$?

$\frac{1}{3}$	$\frac{3}{10}$	$\frac{2}{5}$	$\frac{1}{6}$	$\frac{3}{8}$
---------------	----------------	---------------	---------------	---------------

- A snow removal vehicle spreads grit at the rate of 125g per 1m^2 . How many kilograms are required to grit a path 50m^2 ? _____ kg
- How far will a cyclist travel in $\frac{1}{4}$ hour if he cycles at 18 kilometres per hour? _____ km
- The length of a rectangle is three times its width. If the perimeter is 192cm find
 a the length a _____ cm
 b the width of the rectangle. b _____ cm
- 

O is the centre of the circle the radius of which is 7.4cm. Find
 a the angle at the centre AOB a _____ $^\circ$
 b the length of the straight line AB. b _____ cm
- Of 150 children in a school 60 can swim one width of the pool and 45 can swim one length of the pool. What percentage of the children can swim
 a the width a _____ %
 b the length? b _____ %
- Seven children shared a money prize equally. Each child received $\pounds 42$ and there was $\pounds 6$ left. Find the total value of the prize. _____ \pounds
- 

The drawing shows a block of gold. Find its volume. _____

A $5 + 6 =$ _____	$10 \times 10 =$ _____	$(6 \times 6) + 5 =$ _____	$27 \times 8 =$ _____
$8 + 8 =$ _____	$4 \times 7 =$ _____	$(9 \times 1) + 7 =$ _____	$49 \times 6 =$ _____
$0 + 7 =$ _____	$9 \times 3 =$ _____	$(5 \times 8) + 4 =$ _____	$107 \times 7 =$ _____
$7 + 8 =$ _____	$8 \times 6 =$ _____	$(8 \times 0) + 6 =$ _____	$93 \times 10 =$ _____
$4 + 7 =$ _____	$1 \times 8 =$ _____	$(10 \times 5) + 8 =$ _____	$180 \times 10 =$ _____
$18 + 9 =$ _____	$5 \times 9 =$ _____	$(8 \times 8) + 6 =$ _____	$95 \times 20 =$ _____
$15 + 8 =$ _____	$7 \times 7 =$ _____	$(3 \times 3) + 2 =$ _____	$86 \times 40 =$ _____
$3 + 29 =$ _____	$0 \times 0 =$ _____	$(9 \times 8) + 7 =$ _____	$100 \times 80 =$ _____
$7 + 36 =$ _____	$4 \times 8 =$ _____	$(4 \times 9) + 5 =$ _____	$98 \times 100 =$ _____
$14 + 19 =$ _____	$9 \times 7 =$ _____	$(7 \times 6) + 3 =$ _____	$204 \times 100 =$ _____
$12 - 5 =$ _____	$24 \div 3 =$ _____	$29 \div 3 =$ _____ r _____	$102 \div 3 =$ _____
$9 - 0 =$ _____	$40 \div 8 =$ _____	$67 \div 8 =$ _____ r _____	$336 \div 4 =$ _____
$11 - 3 =$ _____	$0 \div 6 =$ _____	$21 \div 4 =$ _____ r _____	$648 \div 6 =$ _____
$14 - 5 =$ _____	$54 \div 9 =$ _____	$6 \div 7 =$ _____ r _____	$590 \div 10 =$ _____
$15 - 9 =$ _____	$7 \div 7 =$ _____	$39 \div 5 =$ _____ r _____	$800 \div 10 =$ _____
$24 - 6 =$ _____	$42 \div 7 =$ _____	$70 \div 9 =$ _____ r _____	$540 \div 20 =$ _____
$26 - 9 =$ _____	$81 \div 9 =$ _____	$51 \div 6 =$ _____ r _____	$420 \div 60 =$ _____
$32 - 8 =$ _____	$36 \div 4 =$ _____	$13 \div 7 =$ _____ r _____	$1050 \div 50 =$ _____
$58 - 9 =$ _____	$63 \div 9 =$ _____	$52 \div 5 =$ _____ r _____	$4000 \div 100 =$ _____
$47 - 20 =$ _____	$56 \div 8 =$ _____	$4 \div 9 =$ _____ r _____	$2900 \div 100 =$ _____

B Write these numbers.

Fifty thousand and seven _____

Sixty-two thousand four hundred and two _____

One hundred and forty thousand and eleven _____

Two hundred and six thousand and nine _____

$30\,000 + 400 + 6 =$ _____

$100\,000 + 7\,000 + 50 + 8 =$ _____

$(4 \times 1\,000) + (6 \times 100) + (3 \times 10) + 8 =$ _____

$(9 \times 1\,000) + (7 \times 10) + 5 =$ _____

$(3 \times 1\,000) + (4 \times 10) =$ _____

1 million _____

$1\frac{1}{2}$ million _____

$\frac{1}{4}$ million _____

2.7 million _____

C Write as decimals.

47 tenths _____

201 tenths _____

4 hundredths _____

309 hundredths _____

580 hundredths _____

603 thousandths _____

75 thousandths _____

3009 thousandths _____

$9 + \frac{3}{10} + \frac{8}{100} =$ _____

$10 + \frac{7}{100} + \frac{2}{1000} =$ _____

5 tenths + _____

2 hundredths = _____

17 hundredths and _____

6 thousandths = _____

How many tenths equal _____

6.8 _____

14.9 _____

30.4? _____

How many hundredths equal _____

0.93 _____

7.05 _____

3.2? _____

How many thousandths equal _____

0.003 _____

0.078 _____

1.52 _____

2.8 _____

4.09? _____

D $5.03 + 0.7 =$ _____	$6.45 \times 10 =$ _____	$79 \div 10 =$ _____	E Find the value of x .
$2.5 + 1.54 =$ _____	$0.873 \times 10 =$ _____	$40.2 \div 10 =$ _____	
$0.06 + 1.04 =$ _____	$2.03 \times 100 =$ _____	$34 \div 100 =$ _____	
$3.7 + 0.35 =$ _____	$0.092 \times 100 =$ _____	$10.7 \div 100 =$ _____	
$0.28 + 1.625 =$ _____	$1.64 \times 1000 =$ _____	$608 \div 1000 =$ _____	
$2 - 1.4 =$ _____	$0.053 \times 1000 =$ _____	$1035 \div 1000 =$ _____	
$1.4 - 0.9 =$ _____	$1.8 \times 5 =$ _____	$5.6 \div 8 =$ _____	
$10 - 8.75 =$ _____	$4 \times 1.63 =$ _____	$10.25 \div 5 =$ _____	
$4.8 - 3.76 =$ _____	$0.09 \times 8 =$ _____	$0.636 \div 6 =$ _____	
$0.7 - 0.58 =$ _____	$7 \times 2.08 =$ _____	$4.77 \div 9 =$ _____	
	$1.063 \times 6 =$ _____	$8.032 \div 8 =$ _____	
		$x + 7 = 24$ _____	
		$5 + x = 32$ _____	
		$x + 1.5 = 5$ _____	
		$31 - x = 16$ _____	
		$x - 6.3 = 10$ _____	
		$10 \times x = 25$ _____	
		$x \times 4 = 18$ _____	
		$7 = \frac{x}{5}$ _____	
		$\frac{x}{10} = 0.6$ _____	
		$9 + x = 7 \times 7$ _____	

A Fill in the missing numerator or denominator.

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

Write each fraction in its simplest form.

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

Change each improper fraction to a mixed number.

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

Change each mixed number to an improper fraction.

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

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 $\frac{19}{50} = \frac{\quad}{100} = \quad\% \quad$ b $\frac{3}{25} = \frac{\quad}{100} = \quad\% \quad$ c $\frac{13}{20} = \frac{\quad}{100} = \quad\% \quad$
- a $\frac{3}{4} = \frac{\quad}{100} = \quad\% \quad$ b $\frac{4}{5} = \frac{\quad}{100} = \quad\% \quad$ c $\frac{7}{10} = \frac{\quad}{100} = \quad\% \quad$

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. _____ %

- A** 70p = _____ £
 2p = _____ £
 £0.63 = _____ p
 £0.19 = _____ p
 £0.04 = _____ p
 £1.37 = _____ 10ps p
 £3.09 = _____ 20ps p
 £10.80 = _____ 10ps p
 seven 10ps + six 2ps = _____ p
 three 50ps + nine 10ps = _____ £
 three 10ps + five 5ps + 9p = _____ p
 £0.85 = five 10ps + 5ps = _____ 5ps
 £1.20 = twelve 5ps + 20ps = _____ 20ps
 £2.30 = three 50ps + 20ps = _____ 20ps

- B** 9p + 3p + 17p = _____ p
 15p + 8p + 6p = _____ p
 14p + 7p + 12p = _____ p
 5p + 11p + 15p + 4p = _____ p
 6p + 19p + 21p + 18p = _____ p
 37p + 85p = _____ £
 £1.03 + 49p = _____ £
 £2.57 + £0.60 = _____ £
 43p - 19p = _____ p
 95p - 18p = _____ p
 £1.10 - 84p = _____ p
 £1.70 - 93p = _____ p
 £2.30 - £0.80 = _____ £
 £2.06 - £1.40 = _____ p

- C** Find the cost of
 10 at 15p each _____ £
 100 at 3p each _____ £
 9 at 13p each _____ £
 8 at 27p each _____ £
 5 at 45p each _____ £
 19 at 4p each _____ p
 27 at 7p each. _____ £
 Find the cost of 1 when
 10 cost £2.70 _____ p
 100 cost £15 _____ p
 6 cost 84p _____ p
 4 cost £0.72 _____ p
 7 cost £2.24 _____ p
 9 cost £3.06. _____ p

- D** Find the change from
 20p after spending a 3p _____ p b 8p _____ p
 20p after spending a 12p _____ p b 14p _____ p
 50p after spending a 37p _____ p b 19p _____ p
 c 26p _____ p d 5p _____ p
 £1 after spending a 81p _____ p b 66p _____ p
 c 45p _____ p d 7p _____ p
 £5 after spending a 73p £ _____ b £4.09 _____ p
 c £2.54 £ _____ d £1.98 £ _____

E Make up the given amounts using the least number of coins. The first one is done for you.

Amount	50p	20p	10p	5p	2p	1p
23p		1			1	1
39p						
67p						
78p						
86p						
94p						

- F** 84cm = _____ m
 309cm = _____ m
 1075mm = _____ m
 2305mm = _____ m
 750mm = _____ m
 100m = _____ km
 925m = _____ km
 1605m = _____ km
 860g = _____ kg
 1400g = _____ kg
 700ml = _____ l
 3310ml = _____ l

- G** 20.4cm = _____ mm
 1.5m = _____ mm
 2.65m = _____ mm
 0.85m = _____ cm
 8.37km = _____ m
 0.6km = _____ m
 10.075km = _____ m
 1.325kg = _____ g
 0.05kg = _____ g
 3.72kg = _____ g
 1.3l = _____ ml
 4.25l = _____ ml

- H** Find the cost of
 500g at 76p per kg _____ p
 100g at 50p per kg _____ p
 250g at 36p per kg _____ p
 200g at £1.20 per kg _____ p
 1.5kg at 64p per kg _____ p
 100g at 45p per $\frac{1}{2}$ kg _____ p
 300g at £1.10 per $\frac{1}{2}$ kg _____ p
 25cm at 92p per m _____ p
 10cm at £3.50 per m _____ p
 60cm at £2.20 per m _____ £
 1.3l at 60p per l _____ p
 800ml at 50p per l _____ p

- I** How many
 min in $\frac{3}{4}$ h _____ min
 min in $1\frac{1}{4}$ h _____ min
 seconds in 5min _____ s
 weeks in 1 year _____ wk
 days in 1 year _____ d
 days in April _____ d
 days in July _____ d
 days in October? _____ d

- J** Change to 24-hour clock times.
 7.35 a.m. _____
 12.05 p.m. _____
 3.27 p.m. _____
 10.55 p.m. _____
 Change to 12-hour clock times.
 Use a.m. or p.m.
 09:20 _____
 14:56 _____
 00:35 _____
 21:16 _____

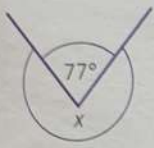
- K** Find the period of time between
 8.35 a.m. and 10.16 a.m. _____ h _____ min
 5.25 a.m. and noon _____ h _____ min
 4.30 p.m. and 7.20 p.m. _____ h _____ min
 11:35 and 14:15 _____ h _____ min
 03:40 and 06:10. _____ h _____ min
 How many days inclusive
 from 28 Jan to 9 Feb _____ d
 from 17 May to 5 June _____ d
 from 26 Nov to 3 Jan? _____ d

- A** Approximate to the nearest
- whole number 49.55 _____
 - whole number $20\frac{2}{5}$ _____
 - hundred 6057 _____
 - hundred 19 503 _____
 - thousand 59 770 _____
 - thousand 109 495 _____
 - £1.00 £27.50 _____

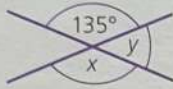
Find to the nearest penny. a $\frac{1}{10}$ of 97p _____ p b $\frac{1}{3}$ of £2.50 _____ p c $\frac{£3.35}{4}$ _____ p

- B** Approximate to the nearest
- metre 8m 59cm _____ m
 - metre 19m 700mm _____ m
 - kilogram 16kg 50g _____ kg
 - kilogram 7.55kg _____ kg
 - $\frac{1}{2}$ kg 9kg 800g _____ kg
 - $\frac{1}{2}$ kg 6.55kg _____ kg
 - litre 39.87l _____ l

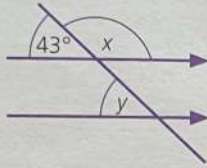
C How many degrees in each of the angles x and y?



angle x _____ °



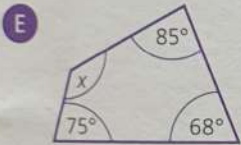
angle x _____ °
angle y _____ °



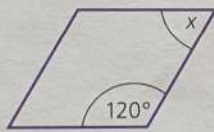
angle x _____ °
angle y _____ °

D Find the missing angle in each of the triangles. Then name each triangle according to a the angles b the sides.

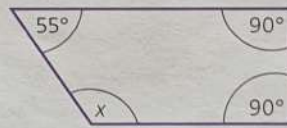
Angles in triangle			a Name of triangle (angles)	b Name of triangle (sides)
32°	°	90°		
46°	52°	°		
60°	°	60°		
°	125°	38°		
57°	57°	°		



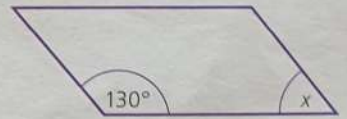
Find the angle x in



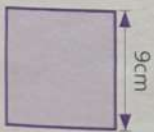
a the rhombus _____ °
c the parallelogram _____ °



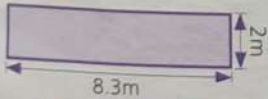
b the trapezium _____ °
d the irregular quadrilateral _____ °



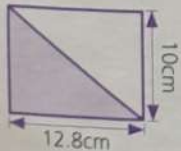
F Give the unit of measurement in the answer for each example.



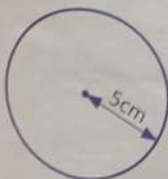
perimeter of square _____
area of square _____



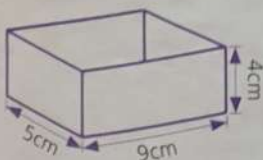
perimeter of rectangle _____
area of rectangle _____



area of triangle _____



diameter of circle _____



How many cm cubes
a fit into the bottom of the box a _____
b fill the box? b _____

Write the missing measurement in each of the rectangles.

Area	50m ²		25cm ²	16m ²
Length		13.5cm		
Breadth	10m	9cm	2.5cm	50cm

Write the missing measurement in each of the triangles.

Base	16cm	45m	10cm	
Height	8cm	12m		7cm
Area			90cm ²	42cm ²

Write the missing radius or diameter.

Radius	15.3cm			27.6cm
Diameter		36mm	9.8cm	

Find the volume of each of these boxes.
length 13cm, breadth 8cm, height 2cm _____
length 7cm, breadth 4cm, height 2.5cm _____
cube of 6cm side _____

Section 3 Test 9

A

ANSWER

- 1 $5.305 = 5 + \frac{\square}{1000}$ 305
 2 1% of sixteen thousand 160
 3 $4.375 \text{ kg} = \square \text{ g}$ 4375 g
 4 $\text{£}2 - (27\text{p} + 65\text{p}) = \text{£} \square$ £ 1.08
 5 $2 \text{ l } 450 \text{ ml} - 0.5 \text{ l} = \square \text{ ml}$ 1950 ml
 6 $0.4 + \square = 0.476$ 0.076
 7 $\text{£}1.76 \times 5$ £ 8.80
 8 $0.75 \text{ km} = \square \text{ m} + 325 \text{ m}$ 425 m
 9 $\frac{x}{100} = 13.07$ Find x . 1307
 10 $38 \text{ min} + 2 \text{ h} + 47 \text{ min} = \square \text{ h } \square \text{ min}$ 3 h 25 min
 11 (a) 10% of $\text{£}20.40$ (a) £ 2.04
 (b) $2\frac{1}{2}\%$ of $\text{£}20.40$ (b) £ 0.51
 12 $\frac{1}{6}$ of $45 \text{ cm} = \square \text{ mm}$ 75 mm

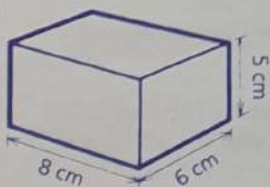
B

ANSWER

- 1

5	6	3	7	9
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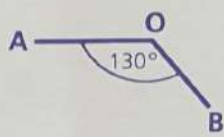

 Which of these numbers are factors of 75? 3 5
 2 Find the average of 3, 1.4, 2 and 2.6. 2.25
 3 Write (a) $\frac{47}{8}$ as a mixed number (a) $5\frac{7}{8}$
 (b) $5\frac{5}{8}$ as an improper fraction. (b) $\frac{35}{8}$
 4 What is the cost of 400 g at $\text{£}1.50$ per $\frac{1}{2}$ kg? £ 1.20
 5 By how many is 450×1000 less than $\frac{1}{2}$ million? 50 000
 6 By how many degrees does the temperature fall from 8°C to -5°C ? 13°C
 7 25% of my money is $\text{£}35$. Find the whole amount. £ 140
 8 Approximate to the nearest whole number (a) 79.63 (a) 80
 (b) 12.475. (b) 12
 9 By how many mm is 95.4 cm less than 1 m ? 46 mm
 10 Find the least number of pennies which must be added to 92p to make the amount exactly divisible by 6. 4
 11 What percentage of 2 litres is (a) 400 ml (a) 20%
 (b) 100 ml ? (b) 5%



Find the volume of the box in cm^3 . 240 cm^3

C

ANSWER

- 1 By how many thousandths is 1.057 less than 2? 943 thousandth
- 2  By how many degrees is the reflex angle AOB greater than the obtuse angle AOB? 100°
- 3 A girl spends $\frac{1}{2}$ of her money on bus fares and $\frac{5}{12}$ on sweets. What fraction of her money is left? $\frac{1}{12}$
- 4 Find the distance travelled in 1 h 40 min at a speed of 90 km/h. 150 km
- 5  From the scale on the spring balance read as accurately as possible the mass shown by the pointer. Write the answer in g. 5650 g

- 6 The population of a town was a quarter of a million, reduced later by 4%. By how many was the population reduced? 10 000
- 7 How much change is there out of $\text{£}15$ after spending $\text{£}9.50$ and $\text{£}3.20$? £ 2.30
- 8 The total length of 5 laths is 16.25 m. Find in m and cm the length of 3 laths. 9m 75cm
- 9 A bus runs at intervals of 25 min. What are the times of the next two buses after 08.15? 08.40 09.05

- 10

CASH PRICE £60 or 10% WEEKLY FOR 12 WEEKS

 By how much is it cheaper to pay cash? £ 12

- 11 A path is 9 m long and 80 cm wide. Find its area in m^2 . 7.2 m^2
- 12 Ravi is given $\text{£}13$ as birthday gifts. He spends 9% and saves the remainder. (a) What percentage does he save? (a) 91%
 (b) How much money does he spend? (b) £ 1.17

Section 3 Test 10

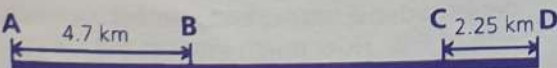
A

ANSWER

- 1 Write in figures six hundred and two thousand five hundred and eight. 602 508
- 2 $£0.27 \times 40$ £ 10.80
- 3 $\frac{2}{3}$ of 960 640
- 4 (a) 1% of £17 (a) 17p
(b) 7% of £17 (b) £ 1.19
- 5 $10.06 = \square$ thousandths 10 060 thousandths
- 6 $£2.30 = 3$ FIFTIES + 2 TWENTIES + \square TENS 4 TENS
- 7 $3\frac{3}{4} \times 4$ 15
- 8 $180^\circ - (72^\circ + 36^\circ)$ 72°
- 9 $300\text{ g} + 450\text{ g} + 350\text{ g} = \square$ kg 1.1 kg
- 10 $2\text{ h } 15\text{ min} - 50\text{ min} = \square$ h \square min 1h 25min
- 11 $27\text{ cm} \times 7 = \square$ m \square cm 1m 89cm
- 12 $\frac{£16.56}{8}$ £ 2.07

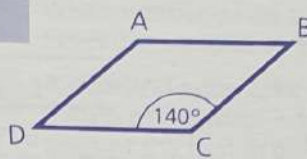
B

ANSWER

- 1 By how many is 0.3 million less than $\frac{1}{2}$ million? 200 000
- 2 What length in m is 6 times 7 m 30 cm? 43.8 m
- 3 How many times is $2\frac{1}{2}$ contained in 50? 20
- 4 Find the total of 17p, 53p, 24p and 7p. Write the answer in £s. £ 1.01
- 5 Write the 24-hour clock time which is 7 h before 4.35 a.m. 21.35
- 6 What fraction in its lowest terms is equal to (a) 8% (b) 35%? (a) $\frac{2}{25}$ (b) $\frac{7}{20}$
- 7 By what quantity is 920 ml less than 1.2 litres? 280 ml
- 8 Increase £30.50 by 10%. £ 33.55
- 9  7.05 km
- 10 Find the cost of 0.3 m at £4.80 per m. £ 1.44
- 11 The perimeter of a rectangle is 65 cm. Its length is 24 cm. Find its width. 8.5 cm
- 12 10 articles cost £2.09. Find the cost of one to the nearest penny. 21p

C

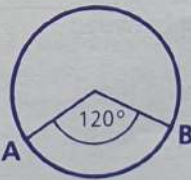
ANSWER

- 1 How many articles costing 3p each can be bought for £2.40? 80
- 2  ABCD is a parallelogram. Find in degrees
(a) \angle BAD (a) 140°
(b) \angle ABC. (b) 40°
- 3 Share £5 between Josh and Amy so that Josh has 6p each time Amy has 4p. How much does each have?
Josh £ 3 Amy £ 2
- 4 A motorist drives from Liverpool to Glasgow, a distance of 350 km, in 6 hours. Find to the nearest km his average speed in km/h. 58 km/h
- 5

0.33	0.3	0.03	0.333
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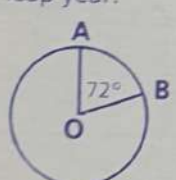
From the largest of these decimal fractions take the smallest. 0.303
- 6 1 cm³ or 1 ml of water has a mass of 1 gram. A jar holds $3\frac{1}{2}$ l of water. Find
(a) the volume of water in cm³ (a) 3500cm³
(b) the mass of the water in kg. (b) 3.5 kg
- 7 How much is saved by buying 15 kg at 16p per kg instead of the same mass at 9p per $\frac{1}{2}$ kg? 30p
- 8 Find the age on the 1st Sept. 2010 in years and months of

Dates of birth	
Riaz	1.3.'96
Sophie	1.10.'94

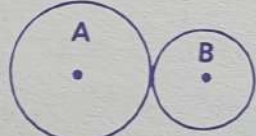
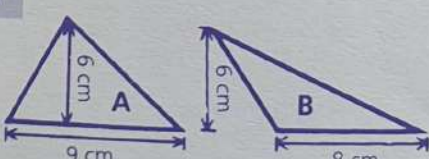
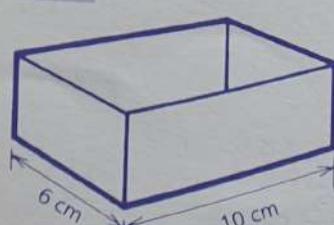
(a) Riaz (a) 14 years 6 months
(b) Sophie (b) 15 years 11 months
- 9 The area of a hall is 60 m². Its length is 8 m. Find (a) its width (a) 7.5 m
(b) its perimeter. (b) 31 m
- 10  (a) What fraction of the circumference of the circle is the arc AB? (a) $\frac{1}{3}$
(b) If the circumference measures 188.4 cm, find in mm the length of the arc. (b) 628 mm
- 11 Meat costs £2.60 per $\frac{1}{2}$ kg. Find the mass in kg and g of meat which costs £7.80. 1kg 500g
- 12 Box A measures 8 cm long, 9 cm wide, 4 cm high. Box B measures 10 cm long, $5\frac{1}{2}$ cm wide, 6 cm high. Find the difference in their volumes. 42 cm³

Section 3 Test 11

A	ANSWER
1	$10 \times 10 \times 10 \times 10 \times 10$ <u>100 000</u>
2	$67p \times 6 = \text{£}$ <u>4.02</u>
3	$(49 + 8) = 100 -$ <u>43</u>
4	90% of £300 <u>£ 270</u>
5	5 litres $\div 8 =$ <u>625 ml</u>
6	$10 - 7\frac{3}{10}$ <u>$2\frac{7}{10}$</u>
7	$0.246 = 2$ tenths + <u>46</u> thousandths
8	(a) $\frac{3}{25} =$ <u>12%</u> (b) $0.07 =$ <u>7%</u>
9	$1.25 \text{ kg} - 600 \text{ g} =$ <u>650 g</u>
10	9 FIVES + 3 TWOS + 3 TWENTIES = <u>£ 1.11</u>
11	$\frac{3}{4}$ of 3.6 cm = <u>27 mm</u>
12	$2 \text{ h } 49 \text{ min} + 53 \text{ min} =$ <u>3 h 42 min</u>

B	ANSWER
1	By how many is 90 200 less than one hundred thousand? <u>9800</u>
2	Find the total number of days in February, March and April in a leap-year. <u>90</u>
3	 How many degrees in the reflex angle AOB? <u>288°</u>
4	Find the cost of 90 cm of cloth at £3.70 per m. <u>£ 3.33</u>
5	How many times is 400 g contained in 2.4 kg? <u>6</u>
6	Of these numbers which is the smallest? 1.11, 1.01, 1.111, 1.1 <u>1.01</u>
7	What is the difference in ml between 2.8 l and 3.7 l? <u>900 ml</u>
8	Write as a fraction in its lowest terms (a) £4.50 of £18 <u>$\frac{1}{4}$</u> (b) 5 min of 1 h. <u>$\frac{1}{12}$</u>
9	A strip of plastic 4 m 200 mm long is cut into 7 equal pieces. Find in mm the length of each piece. <u>600 mm</u>
10	Approximate (a) £29.50 to the nearest £ <u>£ 30</u> (b) $\frac{99}{2}p$ to the nearest penny. <u>50p</u>
11	Find the sum of money which was divided by 5. <u>£ 4.65</u>
12	The diameters of two circles are 9.4 cm and 15.8 cm. What is the radius of each circle in mm? <u>47 mm</u> <u>79 mm</u>

C	ANSWER								
1	Find the numbers less than 50 of which both 2 and 7 are factors. <u>14</u> <u>28</u> <u>42</u>								
2	What is the date of the third Wednesday in July if the 1st of July is on Sunday? <u>18th</u>								
3	<table border="1" data-bbox="941 425 1276 537"> <tr> <td>June</td> <td>July</td> <td>Aug</td> <td>Sept</td> </tr> <tr> <td>40 mm</td> <td>23 mm</td> <td>42 mm</td> <td>35 mm</td> </tr> </table> The monthly rainfall is given in mm. Find the average rainfall for the 4 months. <u>35mm</u>	June	July	Aug	Sept	40 mm	23 mm	42 mm	35 mm
June	July	Aug	Sept						
40 mm	23 mm	42 mm	35 mm						
4	60 kg of mortar is mixed from 4 parts of sand and 1 part of cement. Find the mass used of (a) sand <u>(a) 48 kg</u> (b) cement. <u>(b) 12 kg</u>								
5	Write this number in words. $(7 \times 10^3) + (1 \times 10^2) + (9 \times 10)$ <u>seven thousand one hundred and ninety</u>								
6	How many degrees are there in a turn from W to SE (a) clockwise <u>(a) 225°</u> (b) anticlockwise? <u>(b) 135°</u>								

7	 Diameter of circle A is 9.4 cm. Diameter of circle B is 5.8 cm. How far apart are the two centres in mm? <u>76 mm</u>			
8	(a) Find the area of a square of 5 cm side. <u>(a) 25 cm²</u> (b) How many times greater is the area of a square with sides double that length? <u>(b) 4</u>			
9	<table border="1" data-bbox="925 1433 1117 1545"> <tr> <td>STICKERS</td> </tr> <tr> <td>7p each</td> </tr> <tr> <td>or 6 for 40p</td> </tr> </table> How much money is saved by buying 24 stickers six at a time? <u>8p</u>	STICKERS	7p each	or 6 for 40p
STICKERS				
7p each				
or 6 for 40p				
10	 Which triangle A or B has the greater area and by how many cm²? <u>A by 3 cm²</u>			
11	A boy won a prize of £25 which he deposited in a bank at an interest rate of 6%. How much interest did he receive at the end of 1 year? <u>£ 1.50</u>			
12	 (a) How many centimetre cubes can be fitted into the bottom of the box? <u>(a) 60</u> (b) If the volume of the box is 240 cm³, find its height. <u>(b) 4 cm</u>			

Section 3 Test 12

A

ANSWER

- $55 + 17 = \square \times 9$
_____ 8
- $£0.95 = 1 \text{ FIFTY} + 1 \text{ TWENTY} + \square \text{ FIVES}$
_____ 5 FIVES
- $2.3 \text{ m} - 90 \text{ cm} = \square \text{ cm}$
_____ 140 cm
- $1\ 000\ 000 = \square \text{ thousands}$
_____ 1000 thousands
- $\quad \quad \quad = \square \text{ hundreds}$
_____ 10 000 hundreds
- $380 \text{ g} \times 9 = \square \text{ kg}$
_____ 3.420 kg
- $7 \times y = 7532$ Find y .
_____ 1076
- (a) 1% of £27
(a) _____ 27p
- (b) 8% of £27
(b) _____ £ 2.16
- $\frac{1}{2} + \frac{3}{8} + \frac{3}{4}$
_____ $1\frac{5}{8}$
- $2.050 \text{ l} + \square \text{ ml} = 2\frac{1}{2} \text{ l}$
_____ 450 ml
- $360^\circ - (75^\circ + 80^\circ + 130^\circ)$
_____ 75°
- $\frac{5}{6}$ of £90
_____ £ 75
- 4.07×8
_____ 32.56

B

ANSWER

- | | | | | |
|----|----|----|----|----|
| 24 | 36 | 54 | 60 | 72 |
|----|----|----|----|----|

Which of the numbers are multiples of 4, 6 and 9? _____ 36 _____ 72

- How many km are there in seventeen hundred metres? _____ 1.7 km

- Decrease £44 by 10%. _____ £ 39.60

- How many h and min from 09.48 to 11.19? _____ 1 h _____ 31 min

- What fraction in its lowest terms is



(a) the part shaded _____ $\frac{2}{4}$

(b) the part shaded _____ $\frac{1}{4}$

(c) the part unshaded? _____ $\frac{1}{12}$

- Find the cost of 2.25 l at 28p per l. _____ 63p

- How many biscuits each costing 7p are bought for £2.73? _____ 39

- Write each score as a percentage.

(a) 18 out of 20 _____ (a) 90%

(b) 35 out of 35. _____ (b) 100%

- 5 articles cost 80p. What fraction of 80p will 3 articles cost? _____ $\frac{3}{8}$

- By how many is 300 050 greater than $\frac{1}{4}$ million? _____ 50 050

- Find $\frac{1}{5}$ of £1.68 to the nearest penny. _____ 34p

- Find in cm^3 the volume of a box 15 cm by 10 cm by 7 cm. _____ 1050 cm^3

C

ANSWER

- Find the missing numbers in this series.
0.125, 0.25, 0.375, _____, 0.5, 0.625

- What number when added to 48 three times gives a total of 120? _____ 24

- A date and raisin cake has a mass of 1.5 kg. If 40% of the mass is fruit, find the mass of the fruit in g. _____ 600 g

- A line 8 cm long is drawn to the scale 1 mm to 0.1 m. What length does the line represent? _____ 8 m

- | | | | | |
|---------------|----------------|---------------|---------------|---------------|
| $\frac{1}{3}$ | $\frac{3}{10}$ | $\frac{2}{5}$ | $\frac{1}{6}$ | $\frac{3}{8}$ |
|---------------|----------------|---------------|---------------|---------------|

Which of these fractions is less than $\frac{1}{2}$? _____ $\frac{1}{6}$

- Lawn sand is spread at the rate of 125 g per 1 m^2 . How many kg are required to treat a lawn 50 m^2 ? _____ 6.25 kg

- A motorist starts a journey of 36 km at 09.45 and arrives at 10.30. At this speed

(a) how far does he travel in $\frac{1}{2}$ h? (a) _____ 12 km

(b) Find his average speed in km/h. (b) _____ 48 km/h

- The length of a rectangle is three times its breadth. If the perimeter is 192 cm

find (a) the length _____ (a) 72 cm

(b) the breadth of the rectangle. _____ (b) 24 cm

- O is the centre of the circle the radius of which is 7.4 cm. Find



(a) the angle at the centre AOB _____ (a) 60°

(b) the length of the straight line AB. _____ (b) 7.4 cm

- Name the triangle AOB according to its sides. _____ (c) equilateral

- Of 150 children in a school 60 can swim 1 width of the pool, 45 can swim 1 length of the pool. What percentage of the children can swim

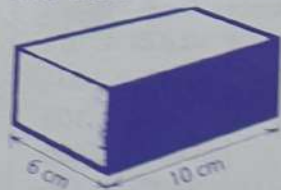
(a) the width _____ (a) 40%

(b) the length? _____ (b) 30%

- 7 children shared a money prize equally. Each child received 42p and there was 6p left.

Find the total value of the prize. _____ £ 3

- The drawing shows a block of metal.



(a) Find its volume. _____ 300 cm^3

(b) If the mass of the metal is 7 times that of water, what is the mass of the block in kg? _____ 2.1 kg

Turn back to page 30 and work for the fourth time Progress Test 2. Enter the result and the date on the chart.

CHECK-UP TEST

Number

A		(a)
$5 + 6$	<u>11</u>	
$8 + 8$	<u>16</u>	
$0 + 7$	<u>7</u>	
$7 + 8$	<u>15</u>	
$4 + 7$	<u>11</u>	
$18 + 9$	<u>27</u>	
$15 + 8$	<u>23</u>	
$3 + 29$	<u>32</u>	
$7 + 36$	<u>43</u>	
$14 + 19$	<u>33</u>	
$12 - 5$	<u>7</u>	
$9 - 0$	<u>9</u>	
$11 - 3$	<u>8</u>	
$14 - 5$	<u>9</u>	
$15 - 9$	<u>6</u>	
$24 - 6$	<u>18</u>	
$26 - 9$	<u>17</u>	
$32 - 8$	<u>24</u>	
$58 - 9$	<u>49</u>	
$47 - 20$	<u>27</u>	

		(b)
10×10	<u>100</u>	
4×7	<u>28</u>	
9×3	<u>27</u>	
8×6	<u>48</u>	
1×8	<u>8</u>	
5×9	<u>45</u>	
7×7	<u>49</u>	
0×0	<u>0</u>	
4×8	<u>32</u>	
9×7	<u>63</u>	
$24 \div 3$	<u>8</u>	
$40 \div 8$	<u>5</u>	
$0 \div 6$	<u>0</u>	
$54 \div 9$	<u>6</u>	
$7 \div 7$	<u>1</u>	
$42 \div 7$	<u>6</u>	
$81 \div 9$	<u>9</u>	
$36 \div 4$	<u>9</u>	
$63 \div 9$	<u>7</u>	
$56 \div 8$	<u>7</u>	

B	
$(6 \times 6) + 5$	<u>41</u>
$(9 \times 1) + 7$	<u>16</u>
$(5 \times 8) + 4$	<u>44</u>
$(8 \times 0) + 6$	<u>6</u>
$(10 \times 5) + 8$	<u>58</u>
$(8 \times 8) + 6$	<u>70</u>
$(3 \times 3) + 2$	<u>11</u>
$(9 \times 8) + 7$	<u>79</u>
$(4 \times 9) + 5$	<u>41</u>
$(7 \times 6) + 3$	<u>45</u>
$29 \div 3$	<u>9 rem. 2</u>
$67 \div 8$	<u>8 rem. 3</u>
$21 \div 4$	<u>5 rem. 1</u>
$6 \div 7$	<u>0 rem. 6</u>
$39 \div 5$	<u>7 rem. 4</u>
$70 \div 9$	<u>7 rem. 7</u>
$51 \div 6$	<u>8 rem. 3</u>
$13 \div 7$	<u>1 rem. 6</u>
$52 \div 5$	<u>10 rem. 2</u>
$4 \div 9$	<u>0 rem. 4</u>

C	
27×8	<u>216</u>
49×6	<u>294</u>
107×7	<u>749</u>
93×10	<u>930</u>
180×10	<u>1800</u>
95×20	<u>1900</u>
86×40	<u>3440</u>
100×80	<u>8000</u>
98×100	<u>9800</u>
204×100	<u>20 400</u>
$102 \div 3$	<u>34</u>
$336 \div 4$	<u>84</u>
$648 \div 6$	<u>108</u>
$590 \div 10$	<u>59</u>
$800 \div 10$	<u>80</u>
$540 \div 20$	<u>27</u>
$420 \div 60$	<u>7</u>
$1050 \div 50$	<u>21</u>
$4000 \div 100$	<u>40</u>
$2900 \div 100$	<u>29</u>

D	Write these numbers.
Fifty thousand and seven	<u>50 007</u>
Sixty-two thousand four hundred and two	<u>62 402</u>
One hundred and forty thousand and eleven	<u>140 011</u>
Two hundred and six thousand and nine	<u>206 009</u>
$30\ 000 + 400 + 6$	<u>30 406</u>
$100\ 000 + 7000 + 50 + 8$	<u>107 058</u>
$(4 \times 1000) + (6 \times 100) + (3 \times 10) + 8$	<u>4638</u>
$(9 \times 1000) + (7 \times 10) + 5$	<u>9075</u>
$(3 \times 1000) + (4 \times 10)$	<u>3040</u>
1 million	<u>1 000 000</u>
$1\frac{1}{2}$ million	<u>1 500 000</u>
$\frac{1}{4}$ million	<u>250 000</u>
2.7 million	<u>2 700 000</u>

E	Write as decimals.
47 tenths	<u>4.7</u>
201 tenths	<u>20.1</u>
4 hundredths	<u>0.04</u>
309 hundredths	<u>3.09</u>
580 hundredths	<u>5.8</u>
603 thousandths	<u>0.603</u>
75 thousandths	<u>0.075</u>
3009 thousandths	<u>3.009</u>
$9 + \frac{3}{10} + \frac{8}{100}$	<u>9.38</u>
$10 + \frac{7}{100} + \frac{2}{1000}$	<u>10.072</u>
5 tenths +	
2 hundredths	<u>0.52</u>
17 hundredths and	
6 thousandths	<u>0.176</u>

F	How many tenths equal
6.8	<u>68</u>
14.9	<u>149</u>
30.4?	<u>304</u>
How many hundredths equal	
0.93	<u>93</u>
7.05	<u>705</u>
3.2?	<u>320</u>
How many thousandths equal	
0.003	<u>3</u>
0.078	<u>78</u>
1.52	<u>1520</u>
2.8	<u>2800</u>
4.09?	<u>4090</u>

G	
$5.03 + 0.7$	<u>5.73</u>
$2.5 + 1.54$	<u>4.04</u>
$0.06 + 1.04$	<u>1.1</u>
$3.7 + 0.35$	<u>4.05</u>
$0.28 + 1.625$	<u>1.905</u>
$2 - 1.4$	<u>0.6</u>
$1.4 - 0.9$	<u>0.5</u>
$10 - 8.75$	<u>1.25</u>
$4.8 - 3.76$	<u>1.04</u>
$0.7 - 0.58$	<u>0.12</u>

H	
6.45×10	<u>64.5</u>
0.873×10	<u>8.73</u>
2.03×100	<u>203</u>
0.092×100	<u>9.2</u>
1.64×1000	<u>1640</u>
0.053×1000	<u>53</u>
1.8×5	<u>9</u>
4×1.63	<u>6.52</u>
0.09×8	<u>0.72</u>
7×2.08	<u>14.56</u>
1.063×6	<u>6.378</u>

I	
$79 \div 10$	<u>7.9</u>
$40.2 \div 10$	<u>4.02</u>
$34 \div 100$	<u>0.34</u>
$10.7 \div 100$	<u>0.107</u>
$608 \div 1000$	<u>0.608</u>
$1035 \div 1000$	<u>1.035</u>
$5.6 \div 8$	<u>0.7</u>
$10.25 \div 5$	<u>2.05</u>
$0.636 \div 6$	<u>0.106</u>
$4.77 \div 9$	<u>0.53</u>
$8.032 \div 8$	<u>1.004</u>

J	
Find the value of x.	
$x + 7 = 24$	<u>17</u>
$5 + x = 32$	<u>27</u>
$x + 1.5 = 5$	<u>3.5</u>
$31 - x = 16$	<u>15</u>
$x - 6.3 = 10$	<u>16.3</u>
$10 \times x = 25$	<u>2.5</u>
$x \times 4 = 18$	<u>4.5</u>
$7 = \frac{x}{5}$	<u>35</u>
$\frac{x}{10} = 0.6$	<u>6</u>
$9 + x = 7 \times 7$	<u>40</u>

CHECK-UP TEST

Money and Measures

A

70p	=	£ 0.70
2p	=	£ 0.02
£0.63	=	63p
£0.19	=	19p
£0.04	=	4p
£1.37	=	TENS 7p
£3.09	=	TWENTIES 9p
£10.80	=	TENS 0p

7 TENS + 6 TWOS	82p
3 FIFTIES + 9 TENS	£ 2.40
3 TENS + 5 FIVES + 9p	64p
£0.85 = 5 TENS + FIVES	7
£1.20 = 12 FIVES + TWENTIES	3
£2.30 = 3 FIFTIES + TWENTIES	4

B

9p + 3p + 17p	29p
15p + 8p + 6p	29p
14p + 7p + 12p	33p
5p + 11p + 15p + 4p	35p
6p + 19p + 21p + 18p	64p
37p + 85p	£ 1.22
£1.03 + 49p	£ 1.52
£2.57 + £0.60	£ 3.17

43p - 19p	24p
95p - 18p	77p
£1.10 - 84p	26p
£1.70 - 93p	77p
£2.30 - £0.80	£ 1.50
£2.06 - £1.40	66p

C Find the cost of

10 @ 15p each	£ 1.50
100 @ 3p each	£ 3.00
9 @ 13p each	£ 1.17
8 @ 27p each	£ 2.16
5 @ 45p each	£ 2.25
19 @ 4p each	76p
27 @ 7p each.	£ 1.89

Find the cost of 1 when

10 cost £2.70	27p
100 cost £15	15p
6 cost 84p	14p
4 cost £0.72	18p
7 cost £2.24	32p
9 cost £3.06.	34p

D Find the change from

20p after spending	(a) 3p	17p	(b) 8p	12p
20p after spending	(a) 12p	8p	(b) 14p	6p
50p after spending	(a) 37p	13p	(b) 19p	31p
	(c) 26p	24p	(d) 5p	45p
£1 after spending	(a) 81p	19p	(b) 66p	34p
	(c) 45p	55p	(d) 7p	93p
£5 note after spending	(a) 73p	£ 4.27	(b) £4.09	91p
	(c) £2.54	£ 2.46	(d) £1.98	£ 3.02

E Make up the given amounts using the least number of coins. The first one is done for you.

AMOUNT	50p	20p	10p	5p	2p	1p
23p		1			1	1
39p		1	1	1	2	
67p	1		1	1	1	
78p	1	1		1	1	1
86p	1	1	1	1		1
94p	1	2			2	

F

84 cm	=	0.84 m
309 cm	=	3.09 m
1075 mm	=	1.075 m
2305 mm	=	2.305 m
750 mm	=	0.750 m
100 m	=	0.1 km
925 m	=	0.925 km
1605 m	=	1.605 km
860 g	=	0.860 kg
1400 g	=	1.4 kg
700 ml	=	0.7 l
3310 ml	=	3.310 l

G

20.4 cm	=	204 mm
1.5 m	=	1500 mm
2.65 m	=	2650 mm
0.85 m	=	85 cm
8.37 km	=	8370 m
0.6 km	=	600 m
10.075 km	=	10 075 m
1.325 kg	=	1325 g
0.05 kg	=	50 g
3.72 kg	=	3720 g
1.3 l	=	1300 ml
4.25 l	=	4250 ml

H Find the cost of

500 g @ 76p per kg	38p
100 g @ 50p per kg	5p
250 g @ 36p per kg	9p
200 g @ £1.20 per kg	24p
1.5 kg @ 64p per kg	96p
100 g @ 45p per ½ kg	9p
300 g @ £1.10 per ½ kg	66p
25 cm @ 92p per m	23p
10 cm @ £3.50 per m	35p
60 cm @ £2.20 per m	£ 1.32
1.3 l @ 60p per l	78p
800 ml @ 50p per l.	40p

I How many

min in $\frac{3}{4}$ h	45
min in $1\frac{1}{4}$ h	75
s in 5 min	300
weeks in 1 year	52
days in 1 year	365
days in April	30
days in July	31
days in October?	31

J Change to 24-hour clock times.

7.35 a.m.	07.35
12.05 p.m.	12.05
3.27 p.m.	15.27
10.55 p.m.	22.55

Change to 12-hour clock times.
Use a.m. or p.m.

09.20	9.20 a.m.
14.56	2.56 p.m.
00.35	12.35 a.m.
21.16	9.16 p.m.

K Find the period of time between

8.35 a.m. and 10.16 a.m.	1 h 41 min
5.25 a.m. and noon	6 h 35 min
4.30 p.m. and 7.20 p.m.	2 h 50 min
11.35 and 14.15	2 h 40 min
03.40 and 06.10.	2 h 30 min

How many days inclusive

from 28th Jan. to 9th Feb.	13
from 17th May to 5th June	20
from 26th Nov. to 3rd Jan.?	39

CHECK-UP TEST

Fractions and Percentages

A Fill in the missing numerator or denominator.

$$\frac{3}{4} = \frac{12}{16}$$

$$\frac{2}{3} = \frac{8}{12}$$

$$\frac{7}{8} = \frac{21}{24}$$

$$\frac{5}{6} = \frac{15}{18}$$

$$\frac{4}{5} = \frac{40}{50}$$

$$\frac{3}{10} = \frac{30}{100}$$

Reduce each fraction to its lowest terms.

$$\frac{9}{12} = \frac{3}{4}$$

$$\frac{12}{18} = \frac{2}{3}$$

$$\frac{20}{25} = \frac{4}{5}$$

$$\frac{24}{30} = \frac{4}{5}$$

$$\frac{70}{100} = \frac{7}{10}$$

$$\frac{45}{100} = \frac{9}{20}$$

Change each improper fraction to a mixed number.

$$\frac{19}{4} = 4\frac{3}{4}$$

$$\frac{31}{5} = 6\frac{1}{5}$$

$$\frac{43}{8} = 5\frac{3}{8}$$

$$\frac{29}{6} = 4\frac{5}{6}$$

$$\frac{77}{10} = 7\frac{7}{10}$$

$$\frac{40}{3} = 13\frac{1}{3}$$

Change each mixed number to an improper fraction.

$$7\frac{3}{4} = \frac{31}{4}$$

$$8\frac{2}{3} = \frac{26}{3}$$

$$5\frac{4}{5} = \frac{29}{5}$$

$$9\frac{7}{10} = \frac{97}{10}$$

$$4\frac{7}{8} = \frac{39}{8}$$

$$10\frac{5}{6} = \frac{65}{6}$$

B Write as a fraction in its lowest terms.

$$50 \text{ of } 75 \quad \frac{2}{3}$$

$$30\text{p of } \text{£}1.00 \quad \frac{3}{10}$$

$$25 \text{ cm of } 1 \text{ m} \quad \frac{1}{4}$$

$$12 \text{ kg of } 30 \text{ kg} \quad \frac{2}{5}$$

$$70 \text{ of } 100 \quad \frac{7}{10}$$

$$800 \text{ g of } 1 \text{ kg} \quad \frac{4}{5}$$

$$400 \text{ ml of } 2 \text{ l} \quad \frac{1}{5}$$

$$45 \text{ of } 100 \quad \frac{9}{20}$$

C Find

$$\frac{3}{5} \text{ of } 70 \quad 42$$

$$\frac{5}{8} \text{ of } 64 \quad 40$$

$$\frac{7}{10} \text{ of } \text{£}1.20 \quad 84 \text{ p}$$

$$\frac{5}{6} \text{ of } 42 \text{ l} \quad 35 \text{ l}$$

$$\frac{4}{7} \text{ of } 350 \text{ g} \quad 200 \text{ g}$$

$$\frac{13}{100} \text{ of } \text{£}1.00 \quad 13 \text{ p}$$

$$\frac{2}{3} \text{ of } 1200 \quad 800$$

$$\frac{35}{100} \text{ of } 1 \text{ kg} \quad 350 \text{ g}$$

D Find the whole when

$$\frac{1}{6} \text{ is } 35 \quad 210$$

$$\frac{3}{4} \text{ is } 27\text{p} \quad 36\text{p}$$

$$\frac{4}{5} \text{ is } 36 \text{ cm} \quad 45 \text{ cm}$$

$$\frac{7}{10} \text{ is } \text{£}1.40 \quad \text{£ } 2.00$$

$$\frac{2}{3} \text{ is } 800 \text{ g} \quad 1200 \text{ g}$$

$$\frac{5}{9} \text{ is } 5000 \quad 9000$$

$$\frac{3}{8} \text{ is } 24 \text{ l} \quad 64 \text{ l}$$

$$\frac{9}{20} \text{ is } \text{£}1.80 \quad \text{£ } 4.00$$

E Write as percentages.

(a) 33 out of 100 $\frac{33}{100}$ = 33% (b) 87 out of 100 $\frac{87}{100}$ = 87% (c) 9 out of 100 $\frac{9}{100}$ = 9% (d) 45 out of 100 $\frac{45}{100}$ = 45%

(a) 0.65 $\frac{65}{100}$ = 65% (b) 0.38 $\frac{38}{100}$ = 38% (c) 0.75 $\frac{75}{100}$ = 75% (d) 0.3 $\frac{30}{100}$ = 30%

(a) $\frac{29}{100}$ = 29% (b) $\frac{56}{100}$ = 56% (c) $\frac{1}{100}$ = 1% (d) $\frac{13}{100}$ = 13%

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

$$(a) \frac{19}{50} = \frac{38}{100} = 38\%$$

$$(b) \frac{3}{25} = \frac{12}{100} = 12\%$$

$$(c) \frac{13}{20} = \frac{65}{100} = 65\%$$

$$(a) \frac{3}{4} = \frac{75}{100} = 75\%$$

$$(b) \frac{4}{5} = \frac{80}{100} = 80\%$$

$$(c) \frac{7}{10} = \frac{70}{100} = 70\%$$

Fill in the blank spaces in each of the columns marked a – m. The first is done for you.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
VULGAR FRACTION (LOWEST TERMS)	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{1}{10}$	$\frac{3}{10}$	$\frac{7}{10}$	$\frac{9}{10}$	$\frac{1}{20}$	$\frac{1}{100}$
DECIMAL FRACTION	0.5	0.25	0.75	0.2	0.4	0.6	0.8	0.1	0.3	0.7	0.9	0.05	0.01
PERCENTAGE	50%	25%	75%	20%	40%	60%	80%	10%	30%	70%	90%	5%	1%

F Find the value of

25% of 120 $\frac{30}{100} \times 120 = 36$
 50% of 35 $\frac{17\frac{1}{2}}{100} \times 35 = 6.125$
 75% of 400 $\frac{300}{100} \times 400 = 300$
 10% of 1000 $\frac{100}{100} \times 1000 = 100$
 30% of 90 $\frac{27}{100} \times 90 = 24.3$
 70% of 200 $\frac{140}{100} \times 200 = 140$
 90% of 160 $\frac{144}{100} \times 160 = 230.4$
 20% of 95p $\frac{19\text{p}}{100} \times 95 = 18\text{p}$
 40% of £20 $\frac{\text{£ } 8.00}{100} \times 20 = \text{£ } 8.00$
 60% of £15. $\frac{\text{£ } 9.00}{100} \times 15 = \text{£ } 9.00$

G Find the value of

50% of 14p $\frac{7\text{p}}{100} \times 14 = 9.8\text{p}$
 20% of £6.50 $\frac{\text{£ } 1.30}{100} \times 6.50 = \text{£ } 1.30$
 100% of 93p $\frac{93\text{p}}{100} \times 100 = 93\text{p}$
 10% of 2.5 kg $\frac{250\text{g}}{100} \times 2.5 = 250\text{g}$
 5% of 4 l $\frac{200\text{ml}}{100} \times 4 = 200\text{ml}$
 30% of 2 m $\frac{60\text{cm}}{100} \times 2 = 60\text{cm}$
 1% of £1.00 $\frac{1\text{p}}{100} \times 100 = 1\text{p}$
 7% of £1.00 $\frac{7\text{p}}{100} \times 100 = 7\text{p}$
 3% of £3.00 $\frac{9\text{p}}{100} \times 3 = 9\text{p}$
 12% of £9.00. $\frac{\text{£ } 1.08}{100} \times 9 = \text{£ } 1.08$

H Find as a percentage

6 of 24 $\frac{25\%}{100} \times 24 = 6$
 $\frac{50\%}{100} \times 15 = 7\frac{1}{2}$ of 15
 $\frac{80\%}{100} \times 50\text{p} = 40\text{p}$ of 50p
 $\frac{100\%}{100} \times 93\text{p} = 93\text{p}$ of 93p
 $\frac{40\%}{100} \times \frac{1}{2} \text{ kg} = 200\text{g}$ of $\frac{1}{2}$ kg
 $\frac{70\%}{100} \times 1 \text{ l} = 700\text{ml}$ of 1 l
 $\frac{10\%}{100} \times \text{£}2.50 = 25\text{p}$ of £2.50
 $\frac{75\%}{100} \times \text{£}2.00 = \text{£}1.50$ of £2.00
 $\frac{7\%}{100} \times \text{£}1.00 = 7\text{p}$ of £1.00
 $\frac{20\%}{100} \times 1.5 \text{ m} = 30 \text{ cm}$ of 1.5 m.

CHECK-UP TEST

Approximations, Angles and Shapes

A Approximate to the nearest whole number

49.55	50
20 $\frac{2}{5}$	20
6057	6100
19 503	19 500
59 770	60 000
109 495	109 000
£1.00	£ 28

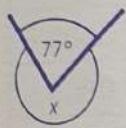
Find to the nearest penny (a) $\frac{1}{10}$ of 97p 10p

B Approximate to the nearest

metre	8 m 59 cm	9 m
metre	19 m 700 mm	20 m
kilogram	16 kg 50 g	16 kg
kilogram	7.550 kg	8 kg
$\frac{1}{2}$ kg	9 kg 800 g	10 kg
$\frac{1}{2}$ kg	6.550 kg	6.5 kg
litre	39.870 l.	40 l

(b) $\frac{1}{3}$ of £2.50 83p (c) $\frac{£3.35}{4}$ 84p

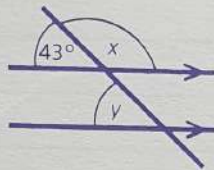
C How many degrees in each of the angles x and y?



angle x 283°



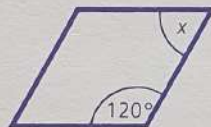
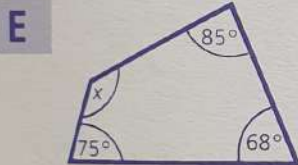
angle x 135°
angle y 45°



angle x 137°
angle y 43°

D Find the missing angle in each of the triangles. Then name each triangle according to (a) the angles (b) the sides.

ANGLES IN TRIANGLE			(a) NAME OF TRIANGLE (ANGLES)	(b) NAME OF TRIANGLE (SIDES)
32°	58°	90°	right-angled	scalene
46°	52°	82°	acute-angled	scalene
60°	60°	60°	acute-angled	equilateral
17°	125°	38°	obtuse-angled	scalene
57°	57°	66°	acute-angled	isosceles



Find the angle x in (a) the rhombus 60° (b) the trapezium 125°
(c) the parallelogram 50° (d) the irregular quadrilateral 132°

F Give the unit of measurement in the answer for each example.

perimeter of square 36 cm
area of square 81 cm²

perimeter of rectangle 20.6 cm
area of rectangle 16.6 cm²

area of triangle 64 cm²

diameter of circle 10 cm

circumference of circle 31.4 cm

$C = \pi d$ or $2\pi r$
 $\pi = 3.14$

How many cm cubes (a) fit into the bottom of the box 45
(b) fill the box? 180

Write the missing measurement in each of the squares or rectangles.

Area	50 m ²	121.5 cm ²	25 cm ²	16 m ²
Length	5 m	13.5 cm	10 cm	32 m
Breadth	10 m	9 cm	2.5 cm	50 cm

Write the missing measurement in each of the triangles.

Base	16 cm	45 m	10 cm	12 cm
Height	8 cm	12 m	18 cm	7 cm
Area	64 cm ²	270 m ²	90 cm ²	42 cm ²

Write the missing radius or diameter.

radius	15.3 cm	18 mm	4.9 cm	27.6 cm
diameter	30.6 cm	36 mm	9.8 cm	55.2 cm

Find the circumference of a circle when
d = 7 cm 21.98 cm r = 4.5 cm 28.26 cm

Find the volume of each of these boxes.
length 13 cm, breadth 8 cm, height 2 cm 208 cm³
length 7 cm, breadth 4 cm, height 2.5 cm 70 cm³
cube of 6 cm side 216 cm³