

Maths summer Revision

Groups 1+2

Name: _____

Answers. _____

Multiplication Practice – 2 Digits x 2 Digits **Answers**

1.

			3	6
x			3	2
			7	2
	1	0	8 ¹	0
	1	1 ¹	5	2

1

2.

			4	6
x			3	3
		1	3	8
	1	3	8 ¹	0
	1	5 ¹	1	8

1

3.

			1	6
x			3	3
			4	8
		4	8 ¹	0
		5 ¹	2	8

1

4.

			1	4
x			2	3
			4	2
		2	8 ¹	0
		3	2	2

1

5.

			2	5
x			3	6
		1	5	0
		7	5 ³	0
		9 ¹	0	0

1

6.

			3	5
x			5	6
		2	1	0
	1	7	5 ³	0
	1 ¹	9 ²	6	0

7.

			3	4
x			2	3
		1	0	2
		6	8 ¹	0
		7	8	2

8.

			4	3
x			3	3
		1	2	9
	1	2	9	0
	1	4	1	9

1

9.

			4	2
x			2	5
		2	1	0
		8	4 ¹	0
	1	0	5	0

1

10.

			4	6
x			1	6
		2	7	6
		4 ²	6 ³	0
		7 ³	3	6

1

11.

			5	2
x			2	6
		3	1	2
	1	0	4 ¹	0
	1	3	5	2

12.

			3	2
x			5	2
			6	4
	1	6	0	0
	1	6 ¹	6	4

Long Multiplication Practice

- 3 Digits x 2 Digits Answers

1.

		1	6	1
x			2	3
		4	8	3
	3	2	2	0
	3	7	0	3

2.

		2	3	2
x			2	6
	1	3	9	2
	4	6	4	0
	6	0	3	2

3.

		6	1	4
x			1	8
	4	9	1	2
	6	1	4	0
1	1	0	5	2

4.

		9	6	9
x			9	5
	4	8	4	5
8	7	2	1	0
9	2	0	5	5

5.

		7	4	0
x			9	6
	4	4	4	0
6	6	6	0	0
7	1	0	4	0

6.

		3	6	2
x			5	8
	2	8	9	6
1	8	1	0	0
2	0	9	9	6

7.

		3	0	5
x			7	1
	3	0	5	
2	1	3	5	0
2	1	6	5	5

8.

		3	7	0
x			6	4
	1	4	8	0
2	2	2	0	0
2	3	6	8	0

9.

		5	8	4
x			1	5
	2	9	2	0
	5	8	4	0
	8	7	6	0

10.

		8	5	1
x			8	9
	7	6	5	9
6	8	0	8	0
7	5	7	3	9

11.

		7	4	9
x			9	8
	5	9	9	2
6	7	4	1	0
7	3	4	0	2

12.

		4	8	2
x			2	3
	1	4	4	6
	9	6	4	0
1	1	0	8	6

13.

		6	4	6
x			1	0
				0
	6	4	6	0
	6	4	6	0

14.

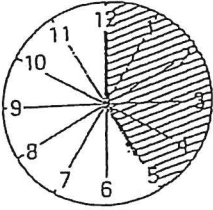
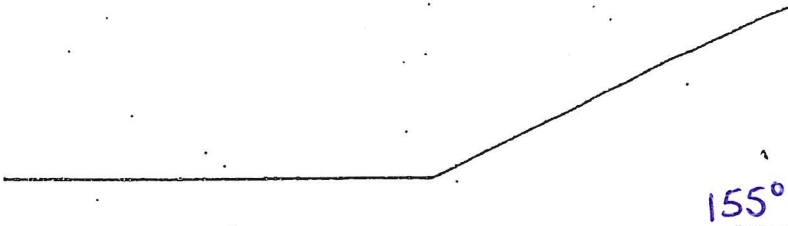
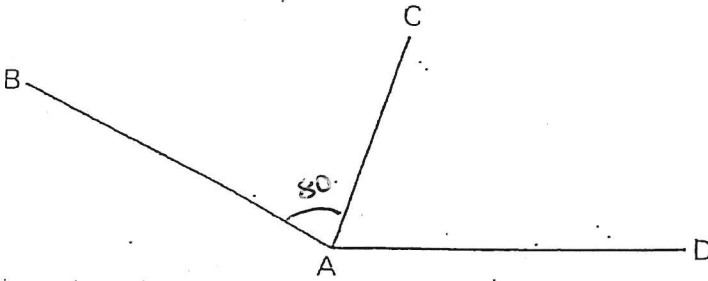
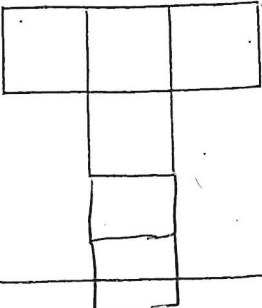
		7	0	9
x			1	7
	4	9	6	3
	7	0	9	0
1	2	0	5	3

15.

		9	1	4
x			5	7
	6	3	9	8
4	5	7	0	0
5	2	0	9	8

16.

		7	1	8
x			4	5
	3	5	9	0
2	8	7	2	0
3	2	3	1	0

<p>1 Complete the equation.</p> $\frac{1}{3} = \frac{3}{6}$	<p>2 Write > or < in the O.</p> <p>(a) $\frac{1}{4}$ <u>></u> $\frac{1}{6}$</p> <p>(b) $\frac{2}{3}$ <u>></u> $\frac{1}{2}$</p>	<p>3</p> <p>(a) $246 - (9 \times 8) = \underline{174}$</p> <p>(b) $165 \div (8 - 3) = \underline{33}$</p>
<p>4 Calculate the angle (shaded) between the hands of the clock.</p>  <p style="text-align: right;"><u>150°</u></p>	<p>5 Measure this angle.</p>  <p style="text-align: right;"><u>155°</u></p>	
<p>6</p>  <p style="text-align: right;">Angle BAC = 80° Angle BAD = 150° Calculate angle CAD.</p> <p style="text-align: right;">Angle CAD = <u>70°</u></p>		
<p>7 A ship is sailing on a bearing of 070°. It then turns through an angle of 116° in a clockwise direction. On what bearing is it now sailing?</p> <p style="text-align: right;"><u>186°</u></p>	<p>8 What is the average of 16, 28 and 31?</p> <p style="text-align: center;">$75 \div 3$</p> <p style="text-align: right;"><u>25</u></p>	
<p>9 Find the total cost of 4 bulbs at 28p each, and 7 plants at 32p each.</p> <p style="text-align: right;"><u>£3.36</u></p> <div style="text-align: right;"> $\begin{array}{r} 112 \\ + 224 \\ \hline \end{array}$ </div>	<p>10 Betty had £10. She bought a book for 80p and two pens costing 18p each.</p> <p>(a) How much did she spend? <u>£8.36</u></p> <p>(b) How much was left? <u>£1.64</u></p>	
<p>11 Calculate the area of a rectangle with length 22 cm and breadth 9 cm.</p> <p style="text-align: right;"><u>198 cm²</u></p>	<p>12 Add two squares to make the net of a closed cube.</p> <p style="text-align: center;">Lots of answers</p> 	

1 Complete the equation.

$$\frac{1}{4} = \frac{3}{12}$$

2 Write > or < in the O.

(a) $\frac{1}{5}$ $\textcircled{<}$ $\frac{1}{4}$

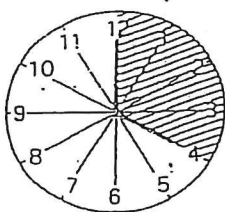
(b) $\frac{3}{4}$ $\textcircled{>}$ $\frac{2}{3}$

3

(a) $(7 \times 6) - (4 - 3) = \underline{41}$

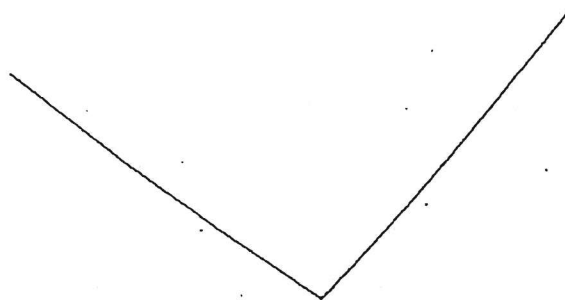
(b) $(180 - 92) \div 4 = \underline{22}$

4 Calculate the angle (shaded) between the hands of the clock.



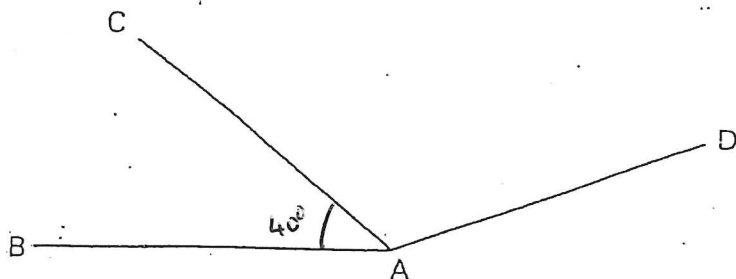
120°

5 Measure this angle.



96°

6



Angle BAC = 40°
Angle BAD = 160°
Calculate angle CAD.

Angle CAD = 120°

7

An aeroplane is flying on a bearing of 250°. It then turns through 75° in a clockwise direction.

On what bearing is it now flying? 325

8

What is the average of 9, 25 and 38?

$$72 \div 3$$

24

9

Find the total cost of 8 loaves at 29p each and 9 cakes at 17p each.

$$\begin{array}{r} 232 \\ 153 \\ \hline \end{array}$$

£3.85

10

John had £8. He bought a birthday card for 23p, and three postcards costing 15p each.

(a) How much did he spend? £0.68

(b) How much was left? £7.32

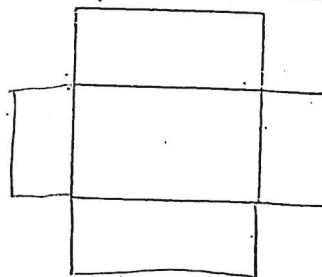
11

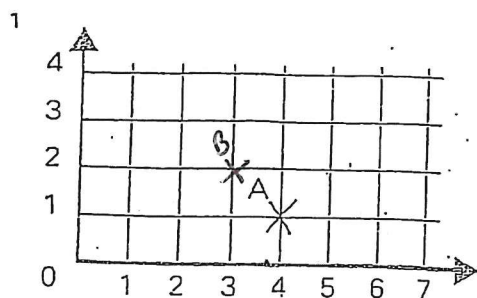
Calculate the area of a rectangle with length 24 cm and breadth 7 cm.

168cm²

12

Add two rectangles to make the net of an open cuboid.

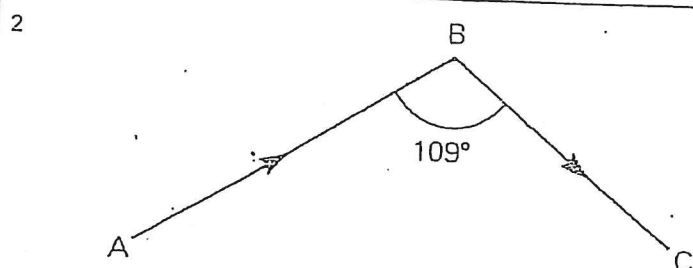




(a) What is the number pair for A?

(4, 1)

(b) Mark a point B that has the number pair (3, 2).



You are walking along AB, and get to B. What angle must you turn through, to face in the direction of C?

71°

3 Write this number.

5 in the units place
1 in the hundredths place
8 in the tens place
6 in the tenths place

5186

4 Complete these patterns.

(a) (b) 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6

5

$$\begin{array}{r} 3.68 \\ +2.79 \\ \hline 6.47 \end{array}$$

6

$$\begin{array}{r} 92.1 \\ -46.5 \\ \hline 45.6 \end{array}$$

7

$$\begin{array}{r} 6.53 \\ -1.72 \\ \hline 4.81 \end{array}$$

8

$$34.7 \div 17 = \underline{2.04}$$

9

$$1.3 \div 4.96 = \underline{0.26}$$

10

$$40.6 - 18 = \underline{22.6}$$

11

$$14.9 - 6.74 = \underline{8.16}$$

12 Round 7.46 to:

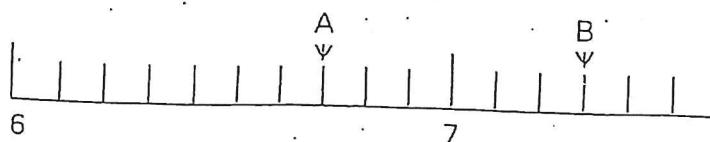
(a) one place of decimals

7.5

(b) the nearest whole number

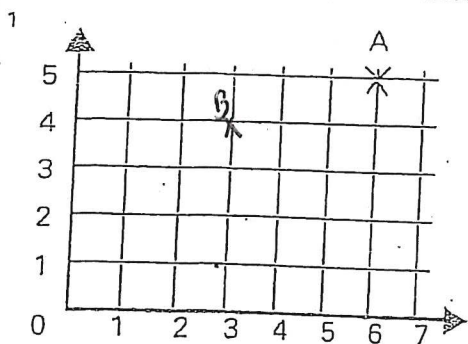
7

13 Give the values at A and B as decimals.



A 6.7

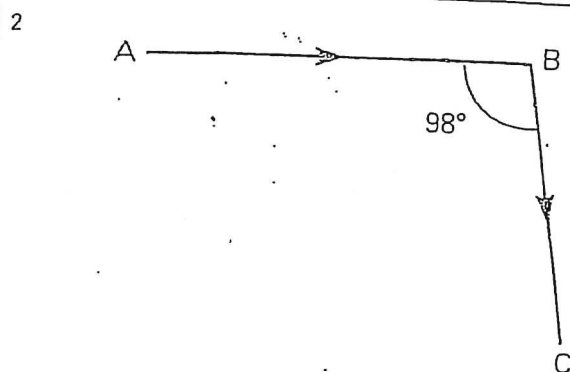
B 7.3



(a) What is the number pair for A?

(6, 5)

(b) Mark a point B that has the number pair (3, 4).



You are walking along AB, and get to B. What angle must you turn through, to face in the direction of C?

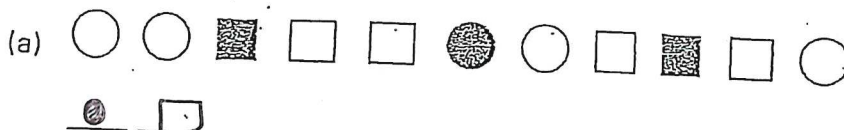
82°

3 Write this number.

2 in the tenths place
5 in the units place
1 in the tens place
7 in the hundredths place

2517

4 Complete these patterns.



(b) 1 1 1 1 2 2 2 2 3 3 3 2

5

$$\begin{array}{r} 5.43 \\ + 1.68 \\ \hline 7.11 \end{array}$$

6

$$\begin{array}{r} 81.4 \\ - 32.6 \\ \hline 48.8 \end{array}$$

7

$$\begin{array}{r} 9.68 \\ - 3.84 \\ \hline 5.84 \end{array}$$

8 $26.9 + 15 = \underline{41.9}$

9 $7.4 + 2.89 = \underline{10.29}$

10 $62.7 - 29 = \underline{33.7}$

11 $.8 - 3.16 = \underline{4.84}$

12 Round 8.87 to:

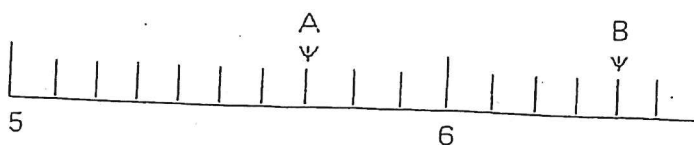
(a) one place of decimals

8.9

(b) the nearest whole number

9

13 Give the values at A and B as decimals.



A 5.7

B 6.4

1

$$3 \text{ m } 84 \text{ cm} = \underline{384} \text{ cm.}$$

2

Calculate the volume of a cuboid measuring
2 cm high, 4 cm wide, 5 cm long.

$$\underline{40 \text{ cm}^3}$$

3

3 and 6 are the first two multiples of 3.
Write the next four multiples of 3.

$$\underline{9} \quad \underline{12} \quad \underline{15} \quad \underline{18}$$

4

Write any multiple of 5 which is also a multiple of 4.

$$\underline{20, 40}$$

5

$$\begin{array}{r} 487 \\ \times 10 \\ \hline 4870 \end{array}$$

6

$$\begin{array}{r} 782 \\ \times 100 \\ \hline 78200 \end{array}$$

7.

Use your calculator.
Find the cost of 67 cameras,
at £49 each.

$$\underline{\pounds 3283}$$

8

How many days from April 26th. to May 7th?
(Don't count *both* the given days.)

$$4 + 6$$

$$\underline{10}$$

9

$$(a) \quad 7 \overline{) 81} \quad \underline{11 \text{ r } 4}$$

$$(b) \quad 6 \overline{) 147} \quad \underline{24 \text{ r } 3}$$

10

Chris scored these marks in a test:
47, 68, 71.
What was her average score?

$$\underline{62}$$

11

Find the total cost of 3 kg of potatoes at
39p for a kg and 9kg of carrots at 42p for a kg.

$$\begin{array}{r} 117 \\ 318 \\ \hline \end{array}$$

$$\underline{\pounds 4.95}$$

12

You can use these numbers: 6, 5 and 4 (in that order), and any mathematics signs you like,
to make a number.

For example $65 - 4 = 61$ or $6 \times (5 - 4) = 6$.

Make four other numbers.

<p>1</p> <p>2 m 71 cm = <u>271</u> cm.</p>	<p>2</p> <p>Calculate the volume of a cuboid measuring 2 cm high, 3 cm wide, 10 cm long.</p> <p style="text-align: right;"><u>60cm³</u></p>
<p>3</p> <p>7 and 14 are the first two multiples of 7. Write the next four multiples of 7.</p> <p style="text-align: center;"> <u>21</u> <u>28</u> <u>35</u> <u>42</u> </p>	
<p>4</p> <p>Write any multiple of 6 which is also a multiple of 4.</p> <p style="text-align: right;"><u>12, 24, 36</u></p>	
<p>5</p> $\begin{array}{r} 539 \\ \times 10 \\ \hline 5390 \end{array}$	<p>6</p> $\begin{array}{r} 617 \\ \times 100 \\ \hline 61700 \end{array}$
<p>7</p> <p>Use your calculator. Find how many chairs there are if there are 27 rows, and 38 chairs in each row.</p> <p style="text-align: right;"><u>1026</u></p>	
<p>8</p> <p>How many days from July 23rd to August 6th? (Don't count <i>both</i> the given days.)</p> <p style="text-align: center;"> <u>8</u> <u>13</u> </p>	<p>9</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(a) $9 \overline{) 87}$ <u>9r6</u></p> </div> <div style="text-align: center;"> <p>(b) $8 \overline{) 341}$ <u>42r5</u></p> </div> </div>
<p>10</p> <p>Gemma saved these amounts in three weeks: 68p, 78p, 97p. What average amount did she save each week?</p> <p style="text-align: center;"><u>81p</u></p>	<p>11</p> <p>Find the total cost of 4 kg of beans at 45p for a kg and 8 kg of apples at 48p for a kg.</p> <p style="text-align: center;"> <u>180</u> <u>384</u> </p> <p style="text-align: right;"><u>£5.64</u></p>
<p>12</p> <p>You can use these numbers: 8, 9 and 1 (in that order), and any mathematics signs you like, to make a number.</p> <p>For example $8 \times (9 \div 1) = 80$ or $8 \div (9 \times 1) = 17$.</p> <p>Make four other numbers.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div>	

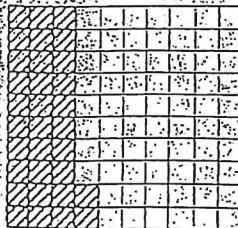
Name _____

1 What part of the large square is shaded?

Give your answer as

(a) a fraction in lowest terms $\frac{8}{25}$

(b) a percentage 32%



2 Write $\frac{3}{25}$ as a percentage.

12%

3 The price of a dress was £30. 10% discount was given. How much was paid for the dress?

$£27$

4 A water tank holds 84 litres when full. It has 9.3 litres in it. How much more water is needed to fill the tank?

74.7 L

5 A number is halved. Then 2 is added. The answer is 8.

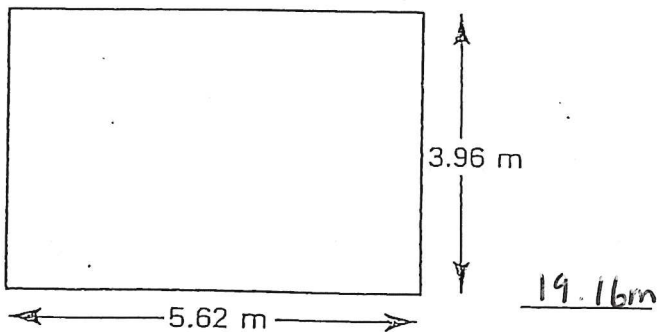
What is the first number?

12

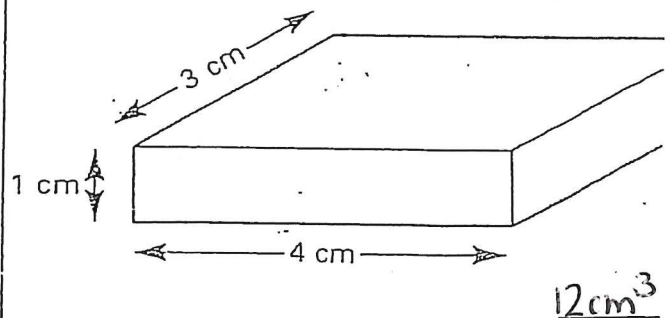
$$\begin{array}{r} 14\text{ m } 68\text{ cm} \\ + 27\text{ m } 49\text{ cm} \\ \hline 42\text{ m } 17\text{ cm} \end{array}$$

$$\begin{array}{r} 4.36\text{ km} \\ - 1.79\text{ km} \\ \hline 2.57\text{ km} \end{array}$$

8 Find the perimeter of this rectangle.



9 Find the volume of this cuboid.



10 Change 2 l 46 ml to millilitres. 2046 ml

11 Change 1.78 kg to grams. 1780 g

12 What number is 10 000 more than 627 813? $637,813$

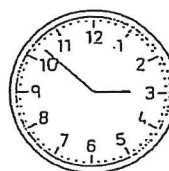
13 $200\,000 + 7000 + 80 + 6 = 207,086$

14 Round 16 846 to:
(a) the nearest 10 $16,850$
(b) the nearest 100 $16,800$
(c) the nearest 1000 $17,000$

15 Write 4:25 p.m. as a 24-hour clock time. $16:25$

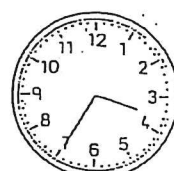
16 Change 6 hours and 29 minutes to minutes. 389

17



A

$2:52 \rightarrow$



B

$3:35$

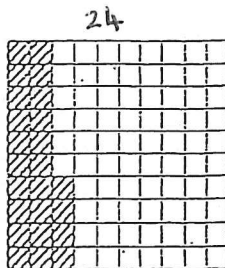
How many minutes from the time showing on clock A to the time shown on clock B? 43 mins

- 1 What part of the large square is shaded?

Give your answer as:

(a) a fraction in lowest terms $\frac{6}{25}$

(b) a percentage 24%



- 2 Write $\frac{7}{20}$ as a percentage.

35%

- 3 A pair of shoes cost £20.
10% discount was given.
How much was paid for the shoes?

$\pounds 18$

- 4 A roll of carpet measures 28 metres.
A customer buys 8.7 metres.
How much carpet is left?

19.3

- 5 Three is added to a number.
The resulting number is halved.
This gives 6.
What is the first number?

9

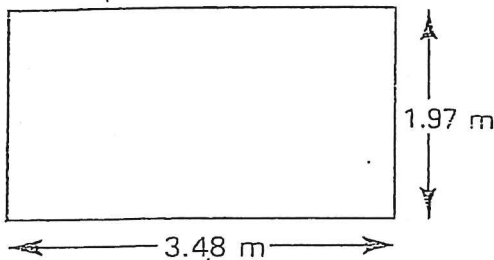
6

$$\begin{array}{r} 26 \text{ m } 68 \text{ cm} \\ + 35 \text{ m } 33 \text{ cm} \\ \hline 62 \text{ m } 1 \text{ cm} \end{array}$$

7

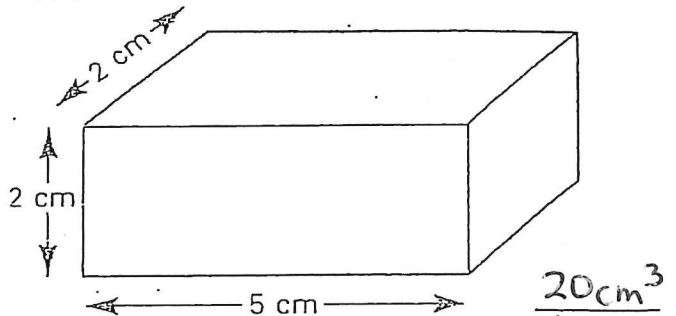
$$\begin{array}{r} 5.14 \text{ km} \\ - 2.57 \text{ km} \\ \hline 2.57 \text{ km} \end{array}$$

- 8 Find the perimeter of this rectangle.



10.9 m

- 9 Find the volume of this cuboid.



- 10 Change 3 l 62 ml to millilitres.

3062 ml

- 11 Change 3.16 kg to grams.

3160 g

- 12 What number is 10 000 more than 805 192?

$815,192$

- 13 $300\,000 + 40\,000 + 900 + 8 =$

$340,908$

- 14 Round 34 937 to:

(a) the nearest 10

$34,940$

(b) the nearest 100

$34,900$

(c) the nearest 1000

$35,000$

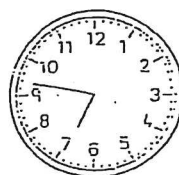
- 15 Write 6:35 p.m. as a 24-hour clock time.

$18:35$

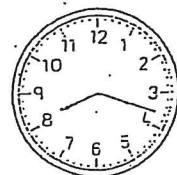
- 16 Change 4 hours 32 minutes to minutes.

272

- 17



A
 $6:47$



B
 $8:18$

How many minutes from the time shown on clock A to the time shown on clock B?

91

A**ANSWER**

- 1 $8 + 7000 + \quad = 7808$ 800
- 2 $£6.00 - £1.95 = £$ £4.05
- 3 46×6 276
- 4 $7 \overline{)749}$ Find the value of x . 107
- 5 $85p + \quad p = £1.15$ 30 p
- 6 $5 \text{ kg } 60 \text{ g} = \quad \text{g}$ 5060 g
- 7 $7 \text{ cm} - 1.5 \text{ cm} = \quad \text{mm}$ 55 mm
- 8 $£9.00 \div 100 = \quad \text{p}$ 9 p
- 9 $2.75 \text{ m} = \quad \text{m } \quad \text{cm}$ 2 m 75 cm
- 10 $\frac{4}{5}$ of 35 kg 28 kg
- 11 $200 \text{ min} = \quad \text{h } \quad \text{min}$ 3 h 20 min
- 12 $\frac{1}{4} \text{ kg} + 130 \text{ g} + \quad \text{g} = \frac{1}{2} \text{ kg}$ 120 g

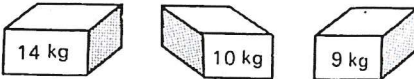

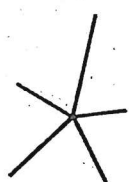
B**ANSWER**

- 1 Divide the sum of 53 and 65 by 2. 59
- 2 The change from £2.00 was 43p. How much had been spent? £1.57
- 3 Find the product of 8 and 8. 64
- 4 10 gift cards cost £1.20. Find the cost of 1 card. 12 p
- 5 Write the next two numbers of this series.

0.2	0.4	0.6	0.8		
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1.0, 1.2
- 6 From 360° subtract the sum of two right angles. 180°
- 7 How many km and m are equal to 1560 m? 1 km 560 m
- 8 Write $9\frac{3}{8}$ to the nearest whole number. 9
- 9 Change to 12-hour clock times. Use a.m. or p.m. (a) 15.45 3.45pm
 (b) 00.15 12.15am
- 10 How many whole ones are equal to 36 quarters? 9
- 11 How many tens have the same value as 5010? 501
- 12 The sum of two numbers is 17. The difference between them is 1. What are the two numbers? 8 9

C**ANSWER**

- 1 Find the change from £5 after spending £1.33 and £2.57. £1.10
- 2 A car travelled 240 km in 3 hours. What was the average speed in km/h? 80 km/h
- 3  Find the average mass of the three boxes. 11 kg
- 4 Grapes cost £3.20 per kg. What is the cost of 2 kg 500 g? £8
- 5 By counting the small squares find the two shapes which are equal in area. Name the two shapes. rectangle triangle
- 6 John had 150 stamps. He put 15 stamps on each of 8 pages in his album. How many stamps had he left? 30
- 7  This clock is 15 minutes fast. Write the correct time in figures using a.m. or p.m. 9:53am
 morning
- 8 A pack of 4 tins of ham can be bought for £5.12. Find the cost of 1 tin. £1.28
- 9 At a football match there were 12 498 spectators. Write the number of spectators
 (a) to the nearest hundred (a) 12,500
 (b) to the nearest thousand. (b) 12,000
- 10  These angles are equal.
 (a) How many right angles are equal to the sum of the five angles? (a) 4
 (b) How many degrees are there in each of the five angles? (b) 72°
- 11 Share 80p between Ali and Katie so that Ali has 20p more than Katie. Ali 50 p Katie 30 p
- 12 There were 2.5 l of milk for 4 children. 100 ml were spilt and the remainder was divided equally. What was one share? 600 ml

A**ANSWER**

- 1 $2.9 =$ tenths 29 tenths
- 2 $£4.07 =$ p 407 p
- 3 3 h 50 min = min 230 min
- 4 $24p \times 5 = £$ £1.20
- 5 $7 \times = 43 - 8$ 5
- 6 $76p + 5 \text{ FIVES} = £$ £1.01
- 7 $(1000 \times 10) + (100 \times 5) + (10 \times 7)$ 10,570
- 8 $5.08 \text{ m} =$ cm 508 cm
- 9 Find $\frac{1}{2}$ of $3\frac{1}{2}$. 1 $\frac{3}{4}$
- 10 $0.6 \text{ kg} - \text{ g} = 340 \text{ g}$ 260 g
- 11 $3\frac{3}{4} \text{ l} =$ l ml 3 l 750 ml
- 12 $11p \times 100 = £$ £11

B**ANSWER**

- 1 Find the missing number in this series.
1, 10, 100, , 10 000 1000
- 2 Find the product of 10 and 45. 450
- 3 How many times greater than 0.1 is 10? 100
- 4 What distance in km and m is twice as long as 4.8 km? 9 km 600 m
- 5 Divide 52p exactly by 4. 13 p
- 6 Find the difference in pence between 15 TENS and 40 FIVES. 350 p
- 7 A journey of 7 km cost 91p. How much was the charge per km? 13 p
- 8 Write to the nearest $\frac{1}{2}$ kg
(a) 1 kg 620 g (a) $1\frac{1}{2}$ kg
(b) 2 kg 390 g. (b) $2\frac{1}{2}$ kg
- 9 Find the area of a rectangle 7 cm long and 3 cm wide. Give the unit of measurement. 21 cm²
- 10 By how many pence is $\frac{1}{5}$ of £3 greater than $\frac{1}{8}$ of £3? 10 p
- 11 58 cm divided by 10 = mm. 58 mm
- 12 Write as a decimal fraction of a kg the sum of $\frac{1}{4}$ kg and 450 g. $\frac{7}{10}$ kg

C**ANSWER**

1



What decimal fraction must be added to the number shown on the abacus picture to equal 50?

 $\frac{1}{2}$

2

What fraction of 28 kg is
(a) 7 kg (b) 4 kg?

(a) $\frac{1}{4}$ (b) $\frac{1}{7}$

3

18/6/93

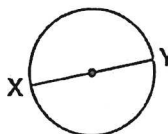
By how many months is 18 February 1994 later than the given date? 8 months

4

Write a quarter of a metre

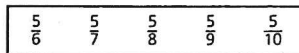
(a) in cm (a) 25 cm
(b) as a decimal fraction of a metre. (b) $\frac{1}{4}$ m

5



The radius of this circle is 0.9 cm. Find the length of the line XY in mm. 18 mm

6



Which of these fractions is

(a) the largest
(b) the smallest? (a) $\frac{5}{6}$ (b) $\frac{5}{10}$

7

A cyclist travelled 72 km in 3 hours. What was his average speed in km/h?

24 km/h

8



The perimeter of this regular hexagon is 7.2 cm. Find the length of one side

(a) in cm (a) 1.2 cm
(b) in mm. (b) 12 mm

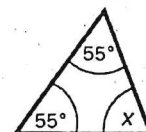
9

PRICE CHART	mass	100g	150g	200g	250g	300g
	cost	18p	x	36p	y	54p

Find the value in pence of x and y.

x 27 p y 48 p

10



How many degrees are there in the angle marked x? 70 °

11

Amounts spent	
Tim 10p	Jane 20p
Saima 40p	David 30p

Find the average amount spent by the children.

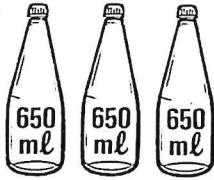
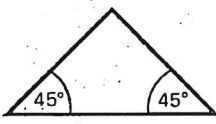
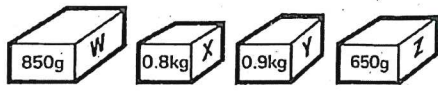
25 p

12

David takes four 5-ml spoonfuls of medicine each day. For how many days will 0.2 l last him? 4 days

A	ANSWER
1 $\square + 6 + 9000 + 400 = 9456$	<u>50</u>
2 $\frac{4}{5} = \square$ hundredths	<u>$\frac{80}{100}$</u>
3 $\pounds 4.05 - 50\text{p} = \pounds \square$	<u>$\pounds 3.55$</u>
4 $24 + 24 + 24 + 24 + 24 + 24 + 24$	<u>168</u>
5 $1\text{ l } 600\text{ ml} \div 8 = \square\text{ ml}$	<u>200 ml</u>
6 $\pounds 3.60 \div 10 = \square\text{ p}$	<u>36 p</u>
7 $9.6\text{ cm} - 15\text{ mm} = \square\text{ mm}$	<u>945 mm</u>
8 $\pounds 3.10 = 3\text{ FIFTIES} + \square\text{ TWENTIES}$	<u>8 TWENTIES</u>
9 $10^2 - 5^2$	<u>75</u>
10 $8\text{ km} - 1700\text{ m} = \square\text{ km}$	<u>6.3 km</u>
11 $\frac{3}{4}\text{ kg} - 260\text{ g} = \square\text{ g}$	<u>490 g</u>
12 $\frac{5}{7}\text{ of } \pounds 63$	<u>$\pounds 45$</u>

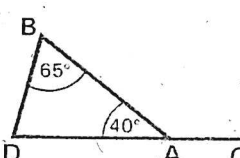
B	ANSWER
1 How many times greater is $\pounds 8$ than 8p ?	<u>100</u>
2 Find the diameter of a circle the radius of which is (a) 5.5 cm (b) 46 mm .	(a) <u>11 cm</u> (b) <u>92 mm</u>
3 Reduce 125 by 99.	<u>26</u>
4 How many hundreds are there in 10 000?	<u>100</u>
5 Multiply 55p by 10.	<u>$\pounds 5.50$</u>
6 How many hours in 3 days?	<u>72</u>
7 Write in \pounds s the total of 7 FIVES, 4 TENS and 9 TWOS.	<u>$\pounds 0.93$</u>
8 500 g cost 28p. Find the cost of $1\frac{1}{2}\text{ kg}$.	<u>84 p</u>
9 Multiply 9.5 cm by 100. Write the answer in m.	<u>9.5 m</u>
10 Write the sum of $4\frac{7}{10}$ and $3\frac{9}{10}$ as a decimal.	<u>8.6</u>
11 $\frac{3}{4}$ of a number is 9. What is the number?	<u>12</u>
12 A 4-m length of ribbon is cut into 5 equal pieces. Find the length in cm of one piece.	<u>80 cm</u>

C	ANSWER								
1 How much change from a FIFTY after buying 4 badges at 9p each?	<u>14 p</u>								
2 Write as a decimal fraction the difference between $\frac{9}{10}$ and $\frac{99}{100}$.	<u>$\frac{9}{100}$</u>								
3  How many ml remain from 2 l after filling the 3 bottles?	<u>50 ml</u>								
4 15th of November was on a Wednesday. On which day of the week was the 29th of November?	<u>Wednesday</u>								
5 An aircraft left Gatwick at 11.00 and by 13.00 it had travelled 1850 km. What was its average speed in km/h?	<u>925 km/h</u>								
6 Write the number nearest to 99 which can be divided exactly by 8.	<u>96</u>								
7 Munch Bars are 63p for a packet of 6. Find the cost of 2 bars.	<u>21 p</u>								
8 <table border="1" data-bbox="917 1254 1101 1400"> <tr><td>Mark</td><td>9</td></tr> <tr><td>Rachael</td><td>7</td></tr> <tr><td>Matthew</td><td>7</td></tr> <tr><td>Jenny</td><td>6</td></tr> </table> In a test the average score of the four children was 8. What was Matthew's score?	Mark	9	Rachael	7	Matthew	7	Jenny	6	<u>10</u>
Mark	9								
Rachael	7								
Matthew	7								
Jenny	6								
9 The length of Pete's pace is 50 cm. How many paces does he take when walking 1 km?	<u>20</u>								
10  Name this triangle by its angles	<u>isosceles</u>								
11  Which two of the boxes together have a mass of 1.5 kg?	<u>W</u> <u>Z</u>								
12 $6 \overline{) 19 \text{ rem. } 5}$ Find the value of x.	<u>119</u>								

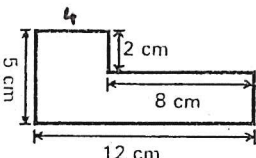
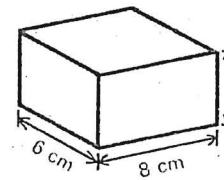
A

- 1 $300 + 15 + 5000$ **Answer** 5315
- 2 45 FIVES = £ 2.25
- 3 $\frac{27}{100}$ of 1 metre = 27 cm
- 4 $200 - 0.45$ 199.55
- 5 The ninth month of the year is September
- 6 709×8 5672
- 7 $3.7 =$ 370 hundredths
- 8 $17\frac{1}{2}p + 5\frac{1}{2}p + 20p =$ £ 0.43
- 9 $140\text{ g} +$ 60 g = 0.2 kg
- 10 $£23.00 \div 5$ £ 4.60
- 11 0.7 litres $- \frac{1}{2}$ litre = 200 ml
- 12 $\frac{3}{10} + \frac{2}{5}$ $\frac{7}{10}$

B

- 1 What number is 32 greater than 290? **Answer** 322
- 2 Write as a decimal
5 tens plus 18 tenths. 51.8
- 3 How many FIVES must be taken from
3 FIFTIES to leave £1.15? 7 FIVES
- 4 How many eighths are there in $7\frac{5}{8}$? $61\frac{1}{8}$
- 5 29th June is on a Friday. On which
day is the 4th July? Wednesday
- 6 Share 75p equally among 8 children.
Find (a) how much each (a) 9 p
(b) how many pennies are left. (b) 3 p
- 7 What weight in kg is double
3 kg 750 g? 7.5 kg
- 8 Which of these numbers will divide
exactly by both 6 and 9 without a
remainder? 24 36 48 63 36
- 9 Find the area of a playground 30 m
long and 18 m wide. 540 m^2
- 10 Find the cost of 400 g at 25p per kg. 10 p
- 11 From $1\frac{3}{8}$ subtract $\frac{1}{2} + \frac{3}{4}$. $\frac{1}{8}$
- 12  How many
degrees in
(a) $\angle BDA$ (a) 75 °
(b) $\angle BAC$ (b) 140 °

C

- Answer**
- 1 Approximate
(a) 9.82 to the nearest whole one (a) 10
(b) £10.48 to the nearest £1 (b) £ 10
(c) 3.25 kg to the nearest kg. (c) 3 kg
- 2 The kilometre reading on the instrument
in a car is 9946.2. What distance has
the car to travel for it to read ten
thousand kilometres? 53.8 km
- 3 What fraction in its lowest terms
is equal to (a) 8 out of 20 (a) $\frac{2}{5}$
(b) 25 out of 40 (b) $\frac{5}{8}$
(c) 70 out of 100? (c) $\frac{7}{10}$
- 4 10 articles cost £2.40. Find the
cost of 3. 72 p
- 5 John was born on 30.6.'68. How old
will he be in years and months on
1st September 1980? 12 years 2 months
- 6 Find the sum of the numbers between
60 and 80 which are divisible by 9. 135
- 7  Find
(a) the perimeter
of the shape (a) 34 cm
(b) its area. (b) 44 cm^2
- 8 1000 screws weigh 4.2 kg. Find the
weight in g of (a) 100 screws (a) 420 g
(b) 1 screw. (b) 4.2 g
- 9 A shopkeeper bought 6 balls for £1.32
and sold them to make a total profit of
48p. For how much did he sell each
ball? 30 p
- 10 A car uses 7 litres of petrol to travel
100 km. How many litres are required
for 1600 km? 112 l
- 11 Three lines measure
0.04 m; 47 mm; 3.8 cm.
Find the difference between the
longest and shortest lines. 9 mm
- 12  48 centimetre
cubes fit exactly
into the bottom
of this box.
The box is 5 cm
deep. How
many cm cubes
are needed to
fill it? 240

Write the numbers 1 to 20 down the side of a sheet of paper.
Write alongside these numbers the **answers only** to the following questions.
Work as quickly as you can.
Time allowed – 10 minutes.

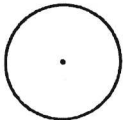
1 $170 + 280$ 450

2 $(\frac{1}{5} \text{ of } 45) - (\frac{1}{7} \text{ of } 63)$ 0

3 $(8 \times 8) + (6 \times 6)$ 100

4 $(450 \div 10) - (3500 \div 100)$ 10

5 Write in figures
nine thousand and sixteen. 9016

6  The diameter of this
circle is 1 cm 6 mm.
What is the radius
of the circle in mm? 8mm

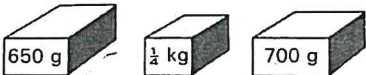
7 Add the numbers between 40 and 50 which can be divided by 7 without
a remainder. 91

8

$\frac{3}{4}$	$\frac{2}{5}$	$\frac{5}{6}$	$\frac{3}{8}$	$\frac{5}{10}$	$\frac{25}{100}$
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 $\frac{5}{10}$

Which of the fractions has the same
value as a half?

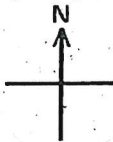
9 

How much more than $1\frac{1}{2}$ kg is the total mass of the three boxes? 100g

10 Which 3 coins are given in change from £2 after spending 60p and 78p? 50p, 10p, 2p

11 Find the cost of one pencil if 10 pencils cost £1.10. 11p

12 How many minutes are there from 11.17 a.m. to 12.15 p.m.? 58 mins

13  A boy stands facing West and turns left
through 3 right angles. In which direction
is he then facing? North

14 Find the cost of 300 ml if $\frac{1}{2}$ l costs 35p. 21p

15 If a car travels at a speed of 80 km/h, how far will it travel from
9.30 a.m. to noon? 200km

16

RED	BLUE	OTHER COLOURS
-----	------	---------------

The diagram represents the 64 cars which passed a school in one hour. How many
of the cars were blue? $316 = 24$

17 What fraction in its lowest terms is 900 g of 1 kg? $\frac{9}{10}$

18 Write to the nearest £ the sum of £3.80 and £2.69. £6

19 Find the cost of 100 buttons if one button costs 8p. £8

20

100 p	100 FIVES	50 TENS	50 TWENTIES
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 Write as £s the total of the contents
of the packets. £21

Write the numbers 1 to 20 down the side of a sheet of paper.
Write alongside each number the answers only to the following questions.
Work as quickly as you can.
Time allowed — 10 minutes.

1 Write in figures to the nearest hundred six thousand four hundred and fifty. **6500**

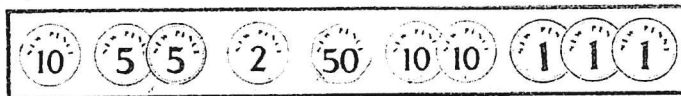
2 Find the missing number of FIVES.
 $£1.65 = 2 \text{ FIFTIES}, 4 \text{ TENS}, \text{ } \text{ FIVES}$ **5**

3 In this set of the factors of 30, one is missing. Which is it? **5**
 $F = \{1, 10, 15, \text{ }, 6, 30, 3, 2\}$

4 Write as a decimal the sum of 3 hundreds and 109 hundredths. **1.12**

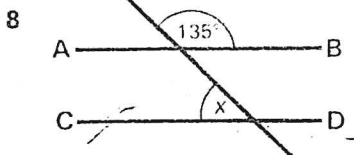
5 How many h and min from 11.52 a.m. to 2.27 p.m.? **2hr 35min.**

6 By counting in the given order find the total value of the coins in the box.



95p.

7 Find the total when 1.05 is added together 8 times. **8.4**



The lines AB and CD are parallel.
Find the size of the angle marked x. **45°**

9 $\frac{3}{4}$ of a sum of money is 54p. Find the whole amount. **72p**

10 $26 \times 8 = 208$. Write the answer to 260×0.8 . **208**

11 On a map a road is shown as 9 cm long, which represents a distance of 4.5 km. Write and complete the scale 1 cm to m. **$\frac{1}{2}$ or 0.5**

12 Take 650 ml from 5 litres and give the answer to the nearest 0.5 l. **4 $\frac{1}{2}$ L.**

13 A regular hexagon has sides each measuring 58 mm. Find its perimeter in cm. **34.8cm**

14 200 g of beef cost 38p. Find the price of the beef per $\frac{1}{2}$ kg. **95p**

15 The circumference of a wheel measures 2.5 m. How many times will it turn in travelling 500 m? **200**

16 A garden plot measures 12.8 m long and 8 m wide. Find its area in m^2 . **102.4m²**

17 Postcards are bought at 3 p each and sold at 5p each. How much profit is made after selling 200 postcards? **£4**

18 The weight of a 10p coin is 11.3 g. Find the weight in kg of the coins in a £10 bag of TENS. **1.13kg**

19 How many 6 cm square tiles are required to cover a rectangular surface measuring 54 cm long and 48 cm wide? **72**

20 Of these 20 examples 6 were wrongly answered. What fraction, in its lowest terms, was correct?

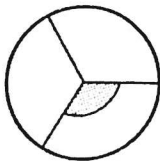
$\frac{7}{10}$

Write the numbers 1 to 20 down the side of a sheet of paper.
Write alongside these numbers the **answers only** to the following questions.
Work as quickly as you can.
Time allowed – 10 minutes.

- 1 Write the sum of £0.44, £0.56 and £1.55 to the nearest TEN.

£2.60

- 2 The circle is divided into three equal parts. How many degrees are there in the angle marked at the centre?



120°

- 3 A car travelled for 15 minutes at a speed of 48 km/h. What distance did it travel?

12 km

- 4 The circumference of a wheel is 1.25 m. How many m will it travel in 10 turns?

12.5 m

- 5 Make 306 one hundred times smaller.

3.06

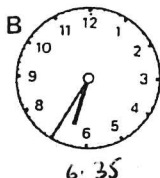
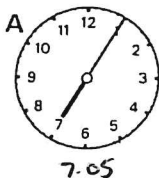
- 6 Write as a decimal the total of 20, $\frac{8}{10}$ and $\frac{19}{100}$.

20.99

- 7 Subtract $\frac{2}{9}$ of 27 from $\frac{3}{5}$ of 45.

21

- 8



Clock A is 10 minutes fast.

How many minutes slow is clock B? 20 mins.

- 9 By how many m is 648 m less than $\frac{3}{4}$ km?

102 m

- 10 Write the decimal fraction which is half-way between 0.4 and 0.38.

$\frac{39}{100}$

- 11 This reading is taken from a dial in a car. It shows the number of km travelled. What will be the reading after travelling a further 700 m?

8999.4

9000.1

- 12 If one article costs £0.44 what will be the cost of 100?

£44

- 13 Find the cost of $4\frac{3}{4}$ kg at 40p per kg.

£1.90

- 14 By how many sixths is $\frac{1}{2}$ less than $\frac{2}{3}$?

$\frac{1}{6}$

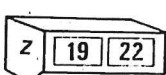
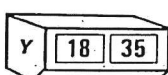
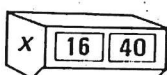
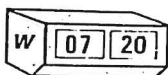
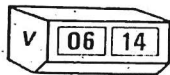
- 15 Which 3 coins were given in change from £3 after spending £1.28 and £1.56?

10p 5p 1p

- 16 $3\frac{1}{2}$ litres + 900 ml + 600 ml = \square l

5

- 17



Which of these 24-hour clock times is nearest to twenty to seven in the evening? 18:35 (y)

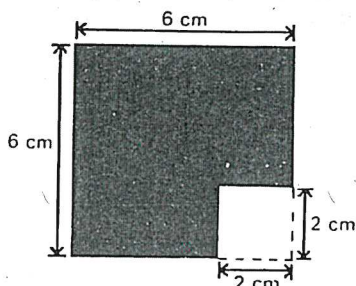
- 18 How many g more than $\frac{1}{2}$ kg is the sum of 334 g and 286 g?

120 g

- 19 50 cm of tape cost 28p. Find the cost of 1.25 m.

70p

- 20



Find in cm the perimeter of the shaded shape.

24 cm

Number

A Write in figures.

nine hundred and sixty	<u>960</u>	four thousand and six	<u>4006</u>	one point one nine	<u>1.19</u>
four hundred and eight	<u>408</u>	ten point one	<u>10.1</u>	twenty point nought two	<u>20.02</u>
eight thousand and seventy	<u>8070</u>	three point nought five	<u>3.05</u>		

B $3000 + 500 + \quad + 9 = 3569$	<u>60</u>	$7.0 + 0.5 + 0.01 =$	<u>7.51</u>
$6000 + \quad + 80 + 1 = 6881$	<u>800</u>	$10.0 + 0.4 =$	<u>10.4</u>
$3 + 40 + 9000 =$	<u>9043</u>	$6.0 + 0.02 =$	<u>6.02</u>
$(1000 \times 4) + (100 \times 9) + (10 \times 3) =$	<u>4930</u>	$20.0 + 0.08 =$	<u>20.08</u>

C $456 =$ tens + 6 units	<u>45</u> tens	Write as a decimal.	
$903 =$ tens + 3 units	<u>90</u> tens	1 tenth	<u>0.1</u>
$1875 =$ tens + 5 units	<u>187</u> tens	1 hundredth	<u>0.01</u>
$5102 =$ hundreds + 2 units	<u>51</u> hundreds	101 tenths	<u>10.1</u>
$9040 =$ hundreds + 4 tens	<u>90</u> hundreds	105 hundredths	<u>1.05</u>

D Write the value of the figure underlined.

467	<u>6</u> tens	3751	<u>7</u> hundred	32.14	<u>1</u> / <u>10</u>	865.8	<u>8</u> / <u>10</u>
8479	<u>8</u> thousands	2008	<u>8</u> units	10.95	<u>5</u> / <u>100</u>	40.06	<u>6</u> / <u>100</u>
32.5	<u>2</u> units	160.2	<u>6</u> tens	0.56	<u>5</u> / <u>10</u>	20.02	<u>2</u> / <u>100</u>

E How many times smaller is

5 than 50	<u>10</u>	96 than 960	<u>10</u>	0.6 than 6.0	<u>10</u>	0.3 than 30	<u>100</u>
7 than 700	<u>100</u>	23 than 2300	<u>100</u>	0.1 than 10.0	<u>100</u>	0.07 than 0.7	<u>10</u>
270 than 2700	<u>10</u>	54 than 5400	<u>100</u>	0.08 than 8.0	<u>100</u>	0.25 than 25?	<u>100</u>

How many times larger is

390 than 39	<u>10</u>	400 than 40	<u>10</u>	8.0 than 0.8	<u>10</u>	50 than 0.5	<u>100</u>
4500 than 45	<u>100</u>	9000 than 90	<u>100</u>	16.0 than 1.6	<u>10</u>	0.4 than 0.04	<u>10</u>
3100 than 31	<u>100</u>	6140 than 614	<u>10</u>	9.0 than 0.09	<u>100</u>	17 than 0.17?	<u>100</u>

F $7 + 8$	<u>15</u>	$17 + 7$	<u>24</u>	$11 - 6$	<u>5</u>	$26 - 9$	<u>17</u>
$6 + 5$	<u>11</u>	$8 + 25$	<u>33</u>	$13 - 8$	<u>5</u>	$22 - 6$	<u>16</u>
$9 + 9$	<u>18</u>	$59 + 6$	<u>65</u>	$15 - 9$	<u>6</u>	$43 - 5$	<u>38</u>
$4 + 7$	<u>11</u>	$5 + 76$	<u>81</u>	$11 - 8$	<u>3</u>	$61 - 4$	<u>57</u>
$8 + 3$	<u>11</u>	$46 + 8$	<u>54</u>	$14 - 7$	<u>7</u>	$85 - 7$	<u>78</u>
$9 + 7$	<u>16</u>	$7 + 89$	<u>96</u>	$12 - 3$	<u>9</u>	$93 - 9$	<u>84</u>
$7 + 5$	<u>12</u>	$38 + 7$	<u>45</u>	$17 - 8$	<u>9</u>	$32 - 8$	<u>24</u>
$5 + 9$	<u>14</u>	$4 + 59$	<u>63</u>	$14 - 9$	<u>5</u>	$54 - 6$	<u>48</u>
$4 + 8$	<u>12</u>	$69 + 5$	<u>74</u>	$12 - 7$	<u>5</u>	$72 - 5$	<u>67</u>
$9 + 4$	<u>13</u>	$8 + 34$	<u>42</u>	$14 - 8$	<u>6</u>	$41 - 3$	<u>38</u>
$8 + 9$	<u>17</u>	$77 + 6$	<u>83</u>	$13 - 6$	<u>7</u>	$82 - 9$	<u>73</u>
$6 + 6$	<u>12</u>	$9 + 68$	<u>77</u>	$11 - 7$	<u>4</u>	$95 - 6$	<u>89</u>
$3 + 8$	<u>11</u>	$43 + 9$	<u>52</u>	$13 - 4$	<u>9</u>	$67 - 9$	<u>58</u>
$8 + 6$	<u>14</u>	$6 + 87$	<u>93</u>	$16 - 7$	<u>9</u>	$56 - 8$	<u>48</u>

G Find the value of x .

$x - 9 = 3$	<u>12</u>	$14 - x = 5$	<u>9</u>	$x + 7 = 13$	<u>6</u>	$8 + x = 14$	<u>6</u>
$8 + x = 15$	<u>7</u>	$x - 5 = 8$	<u>13</u>	$12 - x = 4$	<u>8</u>	$x - 7 = 9$	<u>16</u>
$x - 7 = 4$	<u>11</u>	$9 + x = 15$	<u>6</u>	$9 + x = 18$	<u>9</u>	$x + 9 = 17$	<u>8</u>
$x + 2 = 11$	<u>9</u>	$x - 8 = 8$	<u>16</u>	$x - 5 = 7$	<u>12</u>		

Number

A	$7 \times 7 = 49$ $8 \times 6 = 48$ $3 \times 7 = 21$ $5 \times 9 = 45$ $7 \times 8 = 56$ $6 \times 6 = 36$ $4 \times 5 = 20$ $9 \times 2 = 18$ $0 \times 3 = 0$ $9 \times 9 = 81$ $8 \times 5 = 40$ $6 \times 7 = 42$ $3 \times 8 = 24$ $9 \times 4 = 36$ $4 \times 6 = 24$ $7 \times 9 = 63$ $4 \times 3 = 12$ $9 \times 8 = 72$ $7 \times 4 = 28$ $3 \times 5 = 15$	$(6 \times 9) + 8 = 62$ $(4 \times 8) + 7 = 39$ $(5 \times 7) + 6 = 41$ $(6 \times 3) + 2 = 20$ $(1 \times 9) + 5 = 14$ $(2 \times 7) + 6 = 20$ $(3 \times 9) + 6 = 33$ $(7 \times 7) + 4 = 53$ $(5 \times 6) + 3 = 33$ $(6 \times 8) + 5 = 53$ $(0 \times 5) + 3 = 3$ $(8 \times 8) + 7 = 71$ $(4 \times 9) + 5 = 41$ $(8 \times 7) + 4 = 60$ $(9 \times 6) + 5 = 59$ $(2 \times 8) + 6 = 22$ $(4 \times 7) + 4 = 32$ $(8 \times 9) + 8 = 80$ $(7 \times 6) + 4 = 46$ $(3 \times 6) + 4 = 22$	$36 \div 9 = 4$ $49 \div 7 = 7$ $30 \div 5 = 6$ $72 \div 8 = 9$ $24 \div 6 = 4$ $0 \div 4 = 0$ $27 \div 9 = 3$ $42 \div 6 = 7$ $64 \div 8 = 8$ $40 \div 5 = 8$ $18 \div 9 = 2$ $56 \div 7 = 8$ $28 \div 4 = 7$ $32 \div 8 = 4$ $81 \div 9 = 9$ $36 \div 6 = 6$ $35 \div 5 = 7$ $54 \div 9 = 6$ $48 \div 6 = 8$ $63 \div 7 = 9$	$30 \div 8 = 3 \text{ rem. } 6$ $16 \div 9 = 1 \text{ rem. } 7$ $20 \div 3 = 6 \text{ rem. } 2$ $54 \div 8 = 6 \text{ rem. } 6$ $80 \div 9 = 8 \text{ rem. } 8$ $63 \div 8 = 7 \text{ rem. } 7$ $20 \div 7 = 2 \text{ rem. } 6$ $53 \div 9 = 5 \text{ rem. } 8$ $21 \div 8 = 2 \text{ rem. } 5$ $3 \div 5 = 0 \text{ rem. } 3$ $40 \div 7 = 5 \text{ rem. } 5$ $19 \div 5 = 3 \text{ rem. } 4$ $69 \div 9 = 7 \text{ rem. } 6$ $48 \div 7 = 6 \text{ rem. } 6$ $16 \div 6 = 2 \text{ rem. } 4$ $45 \div 8 = 5 \text{ rem. } 5$ $57 \div 6 = 9 \text{ rem. } 3$ $31 \div 8 = 3 \text{ rem. } 7$ $61 \div 7 = 8 \text{ rem. } 5$ $62 \div 9 = 6 \text{ rem. } 8$
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B Find the value of x .

$5 \times x = 40$ $x \div 6 = 5$ $x \times 7 = 42$ $27 \div x = 9$ $9 \times x = 63$	$x \div 8 = 9$ $5 \times x = 45$ $x \div 9 = 9$ $x \times 4 = 32$ $21 \div x = 3$	$36 \div x = 9$ $4 \times x = 24$ $16 \div x = 4$ $x \times 8 = 64$ $x \div 4 = 7$
--	---	--

$\frac{1}{2}$ of 18 $\frac{1}{3}$ of 21 $\frac{1}{6}$ of 36 $\frac{1}{9}$ of 45	$\frac{1}{4}$ of 28 $\frac{1}{5}$ of 40 $\frac{1}{8}$ of 32 $\frac{1}{10}$ of 100	$\frac{3}{4}$ of 20 $\frac{5}{6}$ of 54 $\frac{7}{8}$ of 48 $\frac{3}{10}$ of 70	$\frac{2}{5}$ of 45 $\frac{4}{7}$ of 35 $\frac{7}{9}$ of 63 $\frac{9}{10}$ of 80
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D Find the whole number when

$\frac{1}{3}$ is 8 $\frac{1}{6}$ is 7 $\frac{1}{9}$ is 4	$\frac{1}{5}$ is 6 $\frac{1}{8}$ is 9 $\frac{1}{10}$ is 12	$\frac{5}{6}$ is 30 $\frac{7}{8}$ is 21 $\frac{4}{9}$ is 36	$\frac{4}{5}$ is 16 $\frac{2}{7}$ is 12 $\frac{7}{10}$ is 49
--	--	---	--

$11 \times 10 = 110$ $100 \times 10 = 1000$ $145 \times 10 = 1450$ $15 \times 100 = 1500$ $120 \times 100 = 12000$ $104 \times 100 = 10400$	$130 \div 10 = 13$ $800 \div 10 = 80$ $4620 \div 10 = 462$ $1900 \div 100 = 19$ $6500 \div 100 = 65$ $10.000 \div 100 = 100$	$1.3 \times 10 = 13$ $0.96 \times 10 = 9.6$ $0.02 \times 10 = 0.2$ $10.8 \times 100 = 1080$ $0.05 \times 100 = 5$ $1.13 \times 100 = 113$	$4.0 \div 10 = 0.4$ $66.0 \div 10 = 6.6$ $0.3 \div 10 = 0.03$ $7.0 \div 100 = 0.07$ $19.0 \div 100 = 0.19$ $403.0 \div 100 = 4.03$
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F Find the missing numerator or denominator.

$\frac{2}{5} = \frac{4}{10}$	$\frac{3}{4} = \frac{9}{12}$	$\frac{1}{5} = \frac{20}{100}$	$\frac{1}{10} = \frac{10}{100}$	$\frac{50}{100} = \frac{1}{2}$
$\frac{2}{3} = \frac{8}{12}$	$\frac{5}{6} = \frac{10}{12}$	$\frac{3}{5} = \frac{60}{100}$	$\frac{3}{10} = \frac{30}{100}$	$\frac{75}{100} = \frac{3}{4}$
$\frac{5}{8} = \frac{10}{16}$	$\frac{7}{20} = \frac{35}{100}$	$\frac{1}{25} = \frac{4}{100}$	$\frac{7}{10} = \frac{70}{100}$	$\frac{20}{100} = \frac{1}{5}$

Measures : Shapes

A	1 cm = <u>10</u> mm	0.01 m = <u>1</u> cm	0.25 m = <u>250</u> mm	$\frac{1}{4}$ m = <u>25</u> cm
	0.1 cm = <u>1</u> mm	0.25 m = <u>25</u> cm	0.75 m = <u>750</u> mm	$\frac{1}{2}$ m = <u>50</u> cm
	1 m = <u>100</u> cm	0.75 m = <u>75</u> cm	1 km = <u>1000</u> m	$\frac{3}{4}$ m = <u>75</u> cm
	0.1 m = <u>10</u> cm	1 m = <u>1000</u> mm	0.5 km = <u>500</u> m	$\frac{1}{2}$ m = <u>500</u> mm
	0.8 m = <u>80</u> cm	0.5 m = <u>500</u> mm	0.75 km = <u>750</u> m	$\frac{3}{4}$ m = <u>750</u> mm

B	184 mm = <u>18</u> cm <u>4</u> mm	390 mm = <u>39</u> cm	3258 m = <u>3</u> km <u>258</u> m
	307 mm = <u>30</u> cm <u>7</u> mm	412 mm = <u>41.2</u> cm	5106 m = <u>5</u> km <u>106</u> m
	465 cm = <u>4</u> m <u>65</u> cm	800 cm = <u>8</u> m	8200 m = <u>82</u> km
	1000 cm = <u>10</u> m <u>0</u> cm	330 cm = <u>3.3</u> m	6500 m = <u>65</u> km
	340 cm = <u>3</u> m <u>40</u> cm	785 cm = <u>7.85</u> m	7750 m = <u>77.5</u> km

C	3000 g = <u>3</u> kg	5000 ml = <u>5</u> l	$\frac{1}{2}$ kg = <u>500</u> g
	5280 g = <u>5</u> kg <u>280</u> g	2884 ml = <u>2</u> l <u>884</u> ml	$\frac{1}{4}$ kg = <u>250</u> g
	8090 g = <u>8</u> kg <u>90</u> g	6160 ml = <u>6</u> l <u>160</u> ml	$\frac{3}{4}$ kg = <u>750</u> g
	4400 g = <u>4.4</u> kg	7300 ml = <u>7.3</u> l	$\frac{1}{2}$ l = <u>500</u> ml
	7250 g = <u>7.25</u> kg	900 ml = <u>0.9</u> l	$\frac{3}{4}$ l = <u>750</u> ml

D	240 g + <u>260</u> g = $\frac{1}{2}$ kg	$\frac{1}{2}$ l + <u>92</u> ml = 592 ml	820 g - 0.7 kg = <u>120</u> g
	370 g + <u>130</u> g = $\frac{1}{2}$ kg	$\frac{1}{2}$ l + <u>135</u> ml = 634 ml	925 ml - 0.8 l = <u>125</u> ml
	406 g + <u>94</u> g = $\frac{1}{2}$ kg	$\frac{1}{2}$ l + <u>327</u> ml = 827 ml	0.6 kg + 60 g = <u>660</u> g
	215 g + <u>35</u> g = $\frac{1}{4}$ kg	$\frac{1}{4}$ l + <u>60</u> ml = 310 ml	0.25 l + 120 ml = <u>370</u> ml
	198 g + <u>52</u> g = $\frac{1}{4}$ kg	$\frac{1}{4}$ l + <u>175</u> ml = 425 ml	0.75 kg + 240 g = <u>990</u> g

E Work across the page.

Write to the

nearest whole number

nearest hundred

nearest £1

nearest cm

nearest m

nearest km

nearest kg

nearest $\frac{1}{2}$ kg

nearest l

19 $\frac{1}{2}$

20

308

300

£17.09

£17

7 cm 2 mm

7 cm

8 m 51 cm

9 m

12 $\frac{1}{2}$ km

12 km

4 kg 300 g

4 kg

6 kg 200 g

6 kg

5 l 400 ml

5 l

10 $\frac{1}{2}$

10

953

1000

£4.83

£5

109 mm

11 cm

730 cm

7 m

18 km 900 m

19 km

9 kg 550 g

10 kg

12 kg 380 g

12 $\frac{1}{2}$ kg

9 l 600 ml

10 l

14.4

14

1326

1300

£32.50

£33

39.6 cm

40 cm

15.3 m

15 m

78.5 km

79 km

99.25 kg

99 kg

5 kg 600 g

5 $\frac{1}{2}$ kg

3.7 l

4 l

11.5

12

2950

3000

£129.28

£129

F



Write the letter of the shape which is

a right-angled triangle

E

a rhombus

G

an obtuse-angled triangle

B

a rectangle

D

a parallelogram

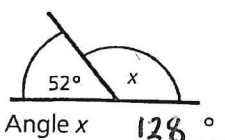
A

an isosceles triangle

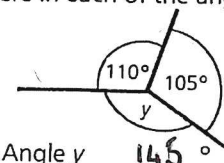
F

G

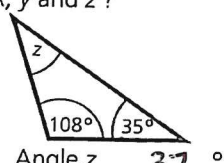
How many degrees are there in each of the angles marked x, y and z?



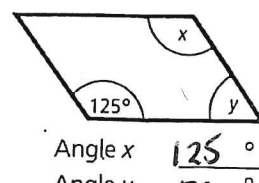
Angle x 128°



Angle y 146°



Angle z 37°



Angle x 125°
Angle y 55°

Money : Time

A Write in each box the coins which make up the given amount. Use the least possible number of coins.

32p	20p 10p 2p	54p	50p 2p 2p	65p	50p 10p 5p
80p	50p 20p 10p	67p	50p 10p 5p 2p	18p	10p 5p 2p 1p
26p	20p 5p 1p	71p	50p 20p 1p	59p	50p 5p 2p 2p

B Find the change from each amount.

Amount	Spent	CHANGE	Amount	Spent	CHANGE	Amount	Spent	CHANGE
50p	24p	26 p	90p	81p	9 p	£3	£2.13	£ 0.87
50p	35p	15 p	60p	52p	8 p	£4	£1.25	£ 2.75
50p	12p	38 p	30p	23p	7 p	£4	£2.48	£ 1.52
50p	37p	13 p	45p	41p	4 p	£5	£3.09	£ 1.91
50p	28p	22 p	£1	24p	76 p	£5	£2.46	£ 2.54
50p	19p	31 p	£1	37p	63 p	£5	£1.67	£ 3.33
50p	23p	27 p	£2	£1.69	31 p	£5	£2.11	£ 2.89
50p	16p	34 p	£2	£1.06	94 p	£5	£0.88	£ 4.12

C	10 FIVES = 25 TWOS	£7.50 = 15 FIFTIES	£2.55 = 12 TWENTIES, 3 FIVES
	6 FIVES = 15 TWOS	£10.00 = 20 FIFTIES	£1.72 = 8 TWENTIES, 6 TWOS
	14 FIVES = 7 TENS	£3.80 = 19 TWENTIES	£2.78 = 13 TWENTIES, 9 TWOS
	100 FIVES = 50 TENS	£10.00 = 50 TWENTIES	£4.30 = 38 TENS, 1 FIFTY
	12 FIVES = 3 TWENTIES	£5.00 = 50 TENS	£3.80 = 7 FIFTIES, 3 TENS
	50 TENS = 25 TWENTIES	£7.50 = 75 TENS	£4.25 = 8 FIFTIES, 5 FIVES
	45 TENS = 9 FIFTIES	£5.00 = 100 FIVES	£2.90 = 5 FIFTIES, 4 TENS
	65 TENS = 13 FIFTIES	£2.20 = 44 FIVES	£1.64 = 3 FIFTIES, 7 TWOS

D	24p + 36p + 50p = £ 1.10	£1.35 - 60p = £ 0.75	£2.24 + £3.09 = £ 5.33
	39p + 41p + 22p = £ 1.02	£2.70 - 85p = £ 1.85	£4.75 - £2.80 = £ 1.95
	25p + 75p + 9p = £ 1.09	£4.60 - 99p = £ 3.61	£1.62 + £1.38 = £ 3.00
	63p + 28p + 12p = £ 1.03	£2.29 - £0.74 = £ 1.55	£1.50 - £0.77 = £ 0.73
	82p + 63p + 15p = £ 1.60	£3.20 - £2.93 = £ 0.27	£3.87 + £0.45 = £ 4.32

E Find the cost of

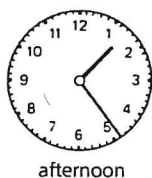
5 kg at 25p per kg	£ 1.25	1½ l at 28p per l	£ 0.42	5 m at £1.18 per m	£ 5.90
3½ kg at 30p per kg	£ 1.05	3 l at 55p per l	£ 1.65	75 cm at £1 per m	£ 0.75
4½ kg at 20p per ½ kg	£ 1.80	2½ l at 22p per l	£ 0.55	4½ m at 50p per m	£ 4.50
2 kg at 50p per 200 g	£ 5.00	½ l at 60p per 100 ml	£ 3.00	1¼ m at 20p per ½ m	£ 0.50
6½ kg at 60p per kg	£ 3.90	750 ml at 26p per ½ l	£ 0.39	2 m at 30p per 20 cm	£ 3.00

F Write the times shown on these clocks (a) in 12-hour clock times using a.m. or p.m. (b) in 24-hour clock times.



(a) 7.37am

(b) 07:37



afternoon

(a) 1.24pm

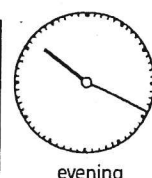
(b) 13:24



morning

(a) 12.45am

(b) 00:45



evening

(a) 10.19pm

(b) 22:19

'CHECKING-UP'

NUMBER

A

(a)

(b)

$$\begin{array}{rcl} 5 + 6 & \underline{11} \\ 8 + 8 & \underline{16} \\ 0 + 7 & \underline{7} \\ 7 + 8 & \underline{15} \\ 4 + 7 & \underline{11} \\ 18 + 9 & \underline{27} \\ 15 + 8 & \underline{23} \\ 3 + 29 & \underline{32} \\ 7 + 36 & \underline{43} \\ 14 + 19 & \underline{33} \end{array}$$

$$\begin{array}{rcl} 10 \times 10 & \underline{100} \\ 4 \times 7 & \underline{28} \\ 9 \times 3 & \underline{27} \\ 8 \times 6 & \underline{48} \\ 1 \times 8 & \underline{8} \\ 5 \times 9 & \underline{45} \\ 7 \times 7 & \underline{49} \\ 0 \times 0 & \underline{0} \\ 4 \times 8 & \underline{32} \\ 9 \times 7 & \underline{63} \end{array}$$

$$\begin{array}{rcl} 12 - 5 & \underline{7} \\ 9 - 0 & \underline{9} \\ 11 - 3 & \underline{8} \\ 14 - 5 & \underline{9} \\ 15 - 9 & \underline{6} \\ 24 - 6 & \underline{18} \\ 26 - 9 & \underline{17} \\ 32 - 8 & \underline{24} \\ 58 - 9 & \underline{49} \\ 47 - 20 & \underline{27} \end{array}$$

$$\begin{array}{rcl} 24 \div 3 & \underline{8} \\ 40 \div 8 & \underline{5} \\ 0 \div 6 & \underline{0} \\ 54 \div 9 & \underline{6} \\ 7 \div 7 & \underline{1} \\ 42 \div 7 & \underline{6} \\ 81 \div 9 & \underline{9} \\ 36 \div 4 & \underline{9} \\ 63 \div 9 & \underline{7} \\ 56 \div 8 & \underline{7} \end{array}$$

B

$$\begin{array}{rcl} (6 \times 6) + 5 & \underline{41} \\ (9 \times 1) + 7 & \underline{16} \\ (5 \times 8) + 4 & \underline{44} \\ (8 \times 0) + 6 & \underline{6} \\ (10 \times 5) + 8 & \underline{58} \\ (8 \times 8) + 6 & \underline{70} \\ (3 \times 3) + 2 & \underline{11} \\ (9 \times 8) + 7 & \underline{79} \\ (4 \times 9) + 5 & \underline{41} \\ (7 \times 6) + 3 & \underline{45} \end{array}$$

$$\begin{array}{rcl} 29 \div 3 & \underline{9} \text{ rem. } \underline{2} \\ 67 \div 8 & \underline{8} \text{ rem. } \underline{3} \\ 21 \div 4 & \underline{5} \text{ rem. } \underline{1} \\ 6 \div 7 & \underline{0} \text{ rem. } \underline{6} \\ 39 \div 5 & \underline{7} \text{ rem. } \underline{4} \\ 70 \div 9 & \underline{7} \text{ rem. } \underline{7} \\ 51 \div 6 & \underline{8} \text{ rem. } \underline{3} \\ 13 \div 7 & \underline{1} \text{ rem. } \underline{6} \\ 52 \div 5 & \underline{10} \text{ rem. } \underline{2} \\ 4 \div 9 & \underline{0} \text{ rem. } \underline{4} \end{array}$$

C

$$\begin{array}{rcl} 27 \times 8 & \underline{216} \\ 49 \times 6 & \underline{294} \\ 107 \times 7 & \underline{749} \\ 93 \times 10 & \underline{930} \\ 180 \times 10 & \underline{1800} \\ 95 \times 20 & \underline{1900} \\ 86 \times 40 & \underline{3440} \\ 100 \times 80 & \underline{8000} \\ 98 \times 100 & \underline{9800} \\ 204 \times 100 & \underline{20400} \end{array}$$

$$\begin{array}{rcl} 102 \div 3 & \underline{34} \\ 336 \div 4 & \underline{84} \\ 648 \div 6 & \underline{108} \\ 590 \div 10 & \underline{59} \\ 800 \div 10 & \underline{80} \\ 540 \div 20 & \underline{27} \\ 420 \div 60 & \underline{7} \\ 1050 \div 50 & \underline{21} \\ 4000 \div 100 & \underline{40} \\ 2900 \div 100 & \underline{29} \end{array}$$

D

Write these numbers.

$$\begin{array}{rcl} \text{Fifty thousand and seven} & \underline{50,007} \\ \text{Sixty-two thousand four hundred and two} & \underline{62,402} \\ \text{One hundred and forty thousand and eleven} & \underline{140,011} \\ \text{Two hundred and six thousand and nine} & \underline{206,009} \\ 30\,000 + 400 + 6 & \underline{30,406} \\ 100\,000 + 7000 + 50 + 8 & \underline{107,058} \\ (4 \times 1000) + (6 \times 100) + (3 \times 10) + 8 & \underline{4638} \\ (9 \times 1000) + (7 \times 10) + 5 & \underline{9075} \\ (3 \times 1000) + (4 \times 10) & \underline{3040} \\ 1 \text{ million} & \underline{1,000,000} \\ 1\frac{1}{2} \text{ million} & \underline{1,500,000} \\ \frac{1}{2} \text{ million} & \underline{250,000} \\ 2.7 \text{ million} & \underline{2,700,000} \end{array}$$

E

Write as decimals.

$$\begin{array}{rcl} 47 \text{ tenths} & \underline{4.7} \\ 201 \text{ tenths} & \underline{20.1} \\ 4 \text{ hundredths} & \underline{0.04} \\ 309 \text{ hundredths} & \underline{3.09} \\ 580 \text{ hundredths} & \underline{5.80} \\ 603 \text{ thousandths} & \underline{0.603} \\ 75 \text{ thousandths} & \underline{0.075} \\ 3009 \text{ thousandths} & \underline{3.009} \\ 9 + \frac{3}{10} + \frac{8}{100} & \underline{9.38} \\ 10 + \frac{7}{100} + \frac{2}{1000} & \underline{10.072} \\ 5 \text{ tenths} + & \\ 2 \text{ hundredths} & \underline{0.52} \\ 17 \text{ hundredths and} & \\ 6 \text{ thousandths} & \underline{0.176} \end{array}$$

F

How many tenths equal

$$\begin{array}{rcl} 6.8 & \underline{68} \\ 14.9 & \underline{149} \\ 30.4? & \underline{304} \\ \text{How many hundredths} \\ \text{equal} & \\ 0.93 & \underline{93} \\ 7.05 & \underline{705} \\ 3.2? & \underline{320} \\ \text{How many thousandths} \\ \text{equal} & \\ 0.003 & \underline{3} \\ 0.078 & \underline{78} \\ 1.52 & \underline{152} \\ 2.8 & \underline{2800} \\ 4.09? & \underline{4090} \end{array}$$

G

$$\begin{array}{rcl} 5.03 + 0.7 & \underline{5.73} \\ 2.5 + 1.54 & \underline{4.04} \\ 0.06 + 1.04 & \underline{1.1} \\ 3.7 + 0.35 & \underline{4.05} \\ 0.28 + 1.625 & \underline{1.905} \\ 2 - 1.4 & \underline{0.6} \\ 1.4 - 0.9 & \underline{0.5} \\ 10 - 8.75 & \underline{1.25} \\ 4.8 - 3.76 & \underline{1.04} \\ 0.7 - 0.58 & \underline{0.12} \end{array}$$

H

$$\begin{array}{rcl} 6.45 \times 10 & \underline{64.5} \\ 0.873 \times 10 & \underline{8.73} \\ 2.03 \times 100 & \underline{203} \\ 0.092 \times 100 & \underline{9.2} \\ 1.64 \times 1000 & \underline{1640} \\ 0.053 \times 1000 & \underline{53} \\ 1.8 \times 5 & \underline{9} \\ 4 \times 1.63 & \underline{6.52} \\ 0.09 \times 8 & \underline{0.72} \\ 7 \times 2.08 & \underline{14.56} \\ 1.063 \times 6 & \underline{6.378} \end{array}$$

I

$$\begin{array}{rcl} 79 \div 10 & \underline{7.9} \\ 40.2 \div 10 & \underline{4.02} \\ 34 \div 100 & \underline{0.34} \\ 10.7 \div 100 & \underline{0.107} \\ 608 \div 1000 & \underline{0.608} \\ 1035 \div 1000 & \underline{1.035} \\ 5.6 \div 8 & \underline{0.7} \\ 10.25 \div 5 & \underline{2.05} \\ 0.636 \div 6 & \underline{0.106} \\ 4.77 \div 9 & \underline{0.53} \\ 8.032 \div 8 & \underline{1.004} \end{array}$$

J

Find the value of x.

$$\begin{array}{rcl} x + 7 = 24 & \underline{17} \\ 5 + x = 32 & \underline{27} \\ x + 1.5 = 5 & \underline{3.5} \\ 31 - x = 16 & \underline{15} \\ x - 6.3 = 10 & \underline{16.3} \\ 10 \times x = 25 & \underline{2.5} \\ x \times 4 = 18 & \underline{4.5} \\ \frac{x}{10} = 0.6 & \underline{6} \\ 9 + x = 7 \times 7 & \underline{40} \end{array}$$

'CHECKING-UP'

MONEY : MEASURES

A

70 p	=	<u>£ 0.70</u>
2 p	=	<u>£ 0.02</u>
£0.63	=	<u>63 p</u>
£0.19	=	<u>19 p</u>
£0.04	=	<u>4 p</u>
£1.37	=	<u>13 TENS 7 p</u>
£3.09	=	<u>30 TENS 9 p</u>
£10.80	=	<u>108 TENS 0 p</u>

7 TENS + 6 TWOS	<u>82 p</u>
3 FIFTIES + 9 FIVES	<u>£1.95</u>
3 TENS + 5 FIVES + 9p	<u>64 p</u>
£0.85 = 5 TENS + FIVES	<u>7</u>
£0.68 = 12 FIVES + pence	<u>8</u>
£2.30 = 3 FIFTIES + TENS	<u>8</u>

B

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

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

C Find the cost of

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

Find the cost of 1 when

10 cost £2.70	<u>27 p</u>
100 cost £5	<u>5 p</u>
6 cost 84p	<u>14 p</u>
4 cost £0.72	<u>18 p</u>
7 cost £2.24	<u>32 p</u>
9 cost £3.06.	<u>34 p</u>

D Find the change from

1 TEN after spending (a) 3 p	<u>7 p</u>	(b) 1 p	<u>9 p</u>
3 TENS after spending (a) 22p	<u>8 p</u>	(b) 20 p	<u>10 p</u>
1 FIFTY after spending (a) 37p	<u>13 p</u>	(b) 19 p	<u>31 p</u>
	(c) 26p	(d) 5 p	<u>45 p</u>
£1 after spending (a) 81p	<u>19 p</u>	(b) 66 p	<u>34 p</u>
	(c) 45p	(d) 7 p	<u>93 p</u>
£5 note after spending (a) 73p	<u>£4.27</u>	(b) £4.09	<u>91 p</u>
	(c) £2.54	(d) £1.98	<u>£3.02</u>

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

AMOUNT	50p	10p	5p	2p	1p
23p		2		1	1
39p		3	1	2	
67p	1	1	1	1	
78p	1	2	1	1	1
86p	1	3	1		1
94p	1	4		2	

F

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

G

20.4 cm	=	<u>204 mm</u>
1.5 m	=	<u>1500 mm</u>
2.65 m	=	<u>2650 mm</u>
0.85 m	=	<u>85 cm</u>
8.37 km	=	<u>8370 m</u>
0.6 km	=	<u>600 m</u>
10.075 km	=	<u>10075 m</u>
1.325 kg	=	<u>1325 g</u>
0.05 kg	=	<u>50 g</u>
3.72 kg	=	<u>3720 g</u>
1.3 l	=	<u>1300 ml</u>
4.25 l	=	<u>4250 ml</u>

H Find the cost of

500 g @ 76p per kg	<u>38 p</u>
100 g @ 50p per kg	<u>5 p</u>
250 g @ 40 p per kg	<u>10 p</u>
200 g @ £1.20 per kg	<u>0.24 p</u>
1.5 kg @ 64p per kg	<u>96 p</u>
100 g @ 45p per ½ kg	<u>9 p</u>
300 g @ £1.10 per ½ kg	<u>66 p</u>
25 cm @ 88p per m	<u>22 p</u>
10 cm @ £3.50 per m	<u>35 p</u>
60 cm @ £2.20 per m	<u>£1.32</u>
1.3 l @ 60p per l	<u>78 p</u>
800 ml @ 50p per l.	<u>40 p</u>

I How many

min in ¾ h	<u>45</u>
min in 1½ h	<u>75</u>
s in 5 min	<u>300</u>
weeks in 1 year	<u>52</u>
days in 1 year	<u>365</u>
days in April	<u>30</u>
days in July	<u>31</u>
days in October?	<u>31</u>

J Change to 24-hour clock times.

7.35 a.m.	<u>07:35</u>
12.05 p.m.	<u>12:05</u>
3.27 p.m.	<u>15:27</u>
10.55 p.m.	<u>22:55</u>

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

09.20	<u>9.20 a.m</u>
14.56	<u>2.56 p.m</u>
00.35	<u>12.35 a.m</u>
21.16	<u>9.16 p.m</u>

K Find the period of time between

8.35 a.m. and 10.16 a.m.	<u>1 h 51 min</u>
5.25 a.m. and noon	<u>6 h 35 min</u>
4.30 p.m. and 7.20 p.m.	<u>2 h 50 min</u>
11.35 and 14.15	<u>2 h 40 min</u>
03.40 and 06.10.	<u>2 h 30 min</u>

How many days inclusive

from 28th Jan. to 9th Feb.	<u>13</u>
from 17th May to 5th June	<u>19</u>
from 26th Nov. to 3rd Jan.?	<u>39</u>

'CHECKING-UP'

FRACTIONS : PERCENTAGES

A Fill in the missing numerator or denominator.

$$\frac{3}{4} = \frac{12}{16}; \quad \frac{2}{3} = \frac{8}{12}; \quad \frac{7}{8} = \frac{21}{24}; \quad \frac{5}{6} = \frac{15}{18}; \quad \frac{4}{5} = \frac{40}{50}; \quad \frac{3}{10} = \frac{30}{100}$$

Reduce each fraction to its lowest terms.

$$\frac{9}{12} = \frac{3}{4}; \quad \frac{12}{18} = \frac{2}{3}; \quad \frac{20}{25} = \frac{4}{5}; \quad \frac{24}{30} = \frac{4}{5}; \quad \frac{70}{100} = \frac{7}{10}; \quad \frac{45}{100} = \frac{9}{20}$$

Change each improper fraction to a mixed number.

$$\frac{19}{4} = 4\frac{3}{4}; \quad \frac{31}{5} = 6\frac{1}{5}; \quad \frac{43}{8} = 5\frac{3}{8}; \quad \frac{29}{6} = 4\frac{5}{6}; \quad \frac{27}{10} = 2\frac{7}{10}; \quad \frac{40}{3} = 13\frac{1}{3}$$

Change each mixed number to an improper fraction.

$$7\frac{3}{4} = \frac{31}{4}; \quad 8\frac{2}{3} = \frac{26}{3}; \quad 5\frac{4}{5} = \frac{29}{5}; \quad 9\frac{7}{10} = \frac{97}{10}; \quad 4\frac{7}{8} = \frac{39}{8}; \quad 10\frac{5}{6} = \frac{65}{6}$$

B Write as a fraction in its lowest terms.

$$\begin{array}{ll} 50 \text{ of } 75 & \frac{2}{3} \\ 30\text{p of } £1.00 & \frac{3}{10} \\ 25 \text{ cm of } 1 \text{ m} & \frac{1}{4} \\ 12 \text{ kg of } 30 \text{ kg} & \frac{2}{5} \\ 70 \text{ of } 100 & \frac{7}{10} \\ 800 \text{ g of } 1 \text{ kg} & \frac{8}{10} \\ 400 \text{ ml of } 2 \text{ l} & \frac{1}{5} \\ 45 \text{ of } 100 & \frac{9}{20} \end{array}$$

C Find

$$\begin{array}{ll} \frac{3}{5} \text{ of } 70 & 42 \\ \frac{5}{8} \text{ of } 64 & 40 \\ \frac{7}{10} \text{ of } £1.20 & 84 \text{ p} \\ \frac{5}{6} \text{ of } 42 \text{ l} & 35 \text{ l} \\ \frac{4}{7} \text{ of } 350 \text{ g} & 200 \text{ g} \\ \frac{13}{100} \text{ of } £1.00 & 13 \text{ p} \\ \frac{2}{3} \text{ of } 1200 & 800 \\ \frac{35}{100} \text{ of } 1 \text{ kg.} & 350 \text{ g} \end{array}$$

D Find the whole when

$$\begin{array}{ll} \frac{1}{6} \text{ is } 35 & 210 \\ \frac{3}{4} \text{ is } 27\text{p} & 36 \text{ p} \\ \frac{4}{5} \text{ is } 36 \text{ cm} & 45 \text{ cm} \\ \frac{7}{10} \text{ is } £1.40 & £2.00 \\ \frac{2}{3} \text{ is } 800 \text{ g} & 1200 \text{ g} \\ \frac{5}{9} \text{ is } 5000 & 9000 \\ \frac{3}{8} \text{ is } 24 \text{ l} & 64 \text{ l} \\ \frac{9}{20} \text{ is } £1.80. & £4.00 \end{array}$$

E Write as percentages.

$$\begin{array}{llll} \text{(a) } 33 \text{ out of } 100 & 33\% & \text{(b) } 87 \text{ out of } 100 & 87\% \\ \text{(a) } 0.65 & 65\% & \text{(b) } 0.38 & 38\% \\ \text{(a) } \frac{29}{100} & 29\% & \text{(b) } \frac{56}{100} & 56\% \end{array}$$

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

$$\begin{array}{lll} \text{(a) } \frac{19}{50} = \frac{38}{100} = 38\% & \text{(b) } \frac{3}{25} = \frac{12}{100} = 12\% & \text{(c) } \frac{13}{20} = \frac{65}{100} = 65\% \\ \text{(a) } \frac{3}{4} = \frac{75}{100} = 75\% & \text{(b) } \frac{4}{5} = \frac{80}{100} = 80\% & \text{(c) } \frac{7}{10} = \frac{70}{100} = 70\% \end{array}$$

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

$$\begin{array}{ll} 25\% \text{ of } 120 & 30 \\ 50\% \text{ of } 35 & 17.5 \\ 75\% \text{ of } 400 & 300 \\ 10\% \text{ of } 1000 & 100 \\ 30\% \text{ of } 90 & 27 \\ 70\% \text{ of } 200 & 140 \\ 90\% \text{ of } 160 & 144 \\ 20\% \text{ of } 95\text{p} & 19\text{p} \\ 40\% \text{ of } £20 & £8 \\ 60\% \text{ of } £15. & £9 \end{array}$$

G Find the value of

$$\begin{array}{ll} 50\% \text{ of } 12\text{p} & 6\text{ p} \\ 20\% \text{ of } £6.50 & £1.30 \\ 100\% \text{ of } 93\text{ p} & 93\text{ p} \\ 10\% \text{ of } 2.5 \text{ kg} & 250\text{ g} \\ 5\% \text{ of } 4 \text{ l} & 200\text{ ml} \\ 30\% \text{ of } 2 \text{ m} & 60\text{ cm} \\ 1\% \text{ of } £1.00 & 1\text{ p} \\ 7\% \text{ of } £1.00 & 7\text{ p} \\ 3\% \text{ of } £3.00 & 9\text{ p} \\ 12\% \text{ of } £9.00 & £1.08 \end{array}$$

H Find as a percentage

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