

1.

Write the number two hundred and forty thousand and twenty six using digits.

Answer: _____

2.

The following pictogram shows the number of students in a primary school who were absent last week.

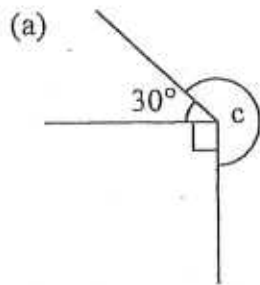
Year 1	人 人 人 人
Year 2	人 人 人 人 人
Year 3	人 人
Year 4	人 人 人
Year 5	人 人
Year 6	人

人 represents 2 students

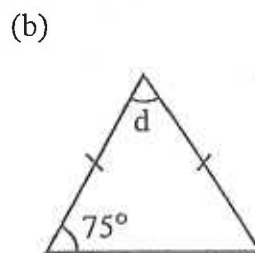
- (a) How many students were absent in Year 5? _____
(b) How many students were absent in total? _____
-

3.

Find the values of angles c and d.



Angle c = _____



Angle d = _____

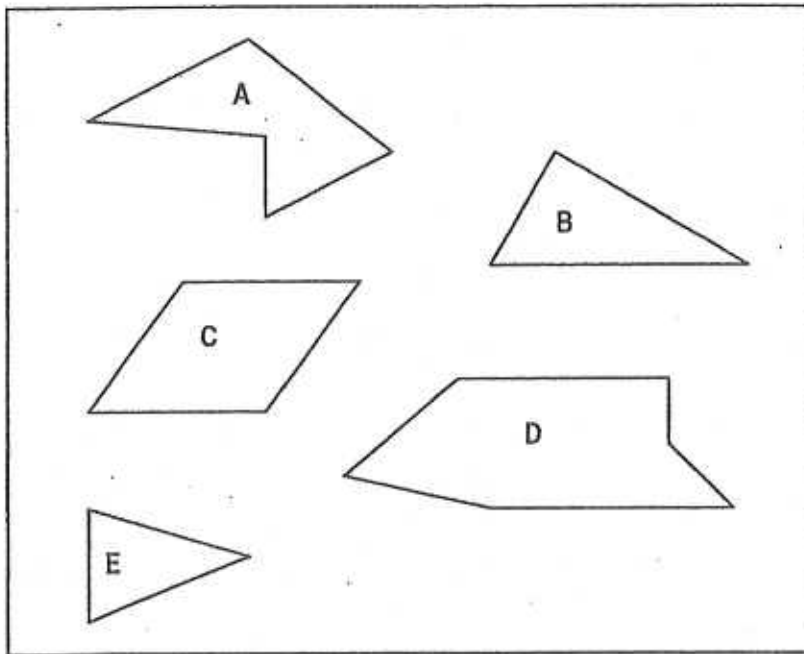
4.

(a) Simplify $6x + 4x$ _____

(b) Simplify $5x - x + 7x$ _____

5.

Here are five shapes.



Write in the missing letters.

Shape has two pairs of parallel sides.

Shape is a pentagon.

6.

Write the following numbers in order, putting the smallest first.

4.847

5.978

4.874

5.789

4.784

7.

If $2x + 7 = 33$ find x .

$x =$ _____

8.

A video lasts for 1 hour and 50 minutes.
It starts at 7 : 15 pm. What time does it end?

_____ pm

9.

Here is a table showing information about various types of ape.

Ape	Area where found	Height (m)	Weight (kg)
Gorilla	West Africa	1.7-1.8	135 - 275
Gibbon	Asia	0.6 - 0.9	10 - 15
Chimpanzee	Central Africa	1.0 - 1.6	40 - 50
Orang-utan	South East Asia	1.3 - 1.4	80 - 90

(a) Rodney is a gibbon. In which area would he be found? (a) _____

(b) Guy weighs 200 kg. What type of ape is he? (b) _____

(c) Trudy is 1.4 metres tall and weighs 45 kg.
What type of ape is she? (c) _____

10.

Write down a number between 20 and 30

(a) that is prime _____

(b) that is a square _____

(c) that is a multiple of 8. _____

11.

Complete the following table, showing the ways that the children from class 6A travel to school:

	Walk	Cycle	Car	Totals
Boys	14		11	
Girls		3		16
Totals	21	5		

12.

Here is a calendar for August 1998

AUGUST 1998

Sun	Mon	Tues	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Simon's birthday is on August 20th. In 1998 he had a party on the Sunday after his birthday.

(a) What was the date of his party? _____

Tina's birthday is on September 9th.

(b) On what day of the week was her birthday in 1998?

The day was _____

13.

It takes Gertrude the cow x minutes to walk from one field to another. It takes Daisy 10 minutes longer.

Write down how many minutes it takes Daisy to do the walk.

_____ minutes

14.

20 pupils in Class 9A measured the lengths of their arm-spans in centimetres. Here are their results.

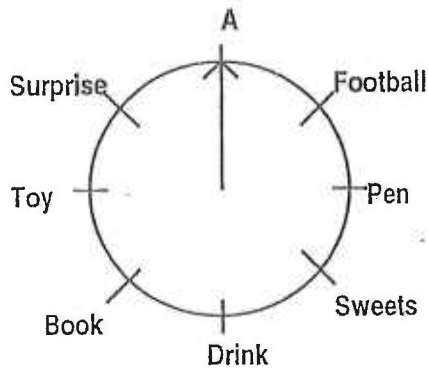
128 148 126 127 125 135 117 139 141 133
119 140 136 149 135 130 134 129 138 125

Complete the following tally chart.

Armspan (cm)	Tally	Frequency
110 - 119		
120 - 129		
130 - 139		
140 - 149		
150 - 159		

15.

On the tombola stall at Martford Fete, the arrow points to the prize you have won. The arrow always starts from A. Which prize does Melissa win if the arrow spins:



(a) anticlockwise through 45° ?

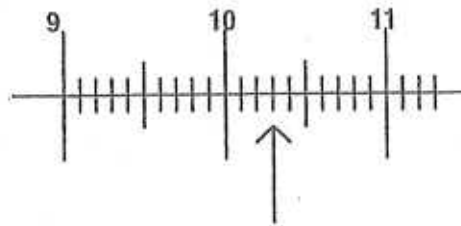
Prize _____

(b) clockwise through 225° ?

Prize _____

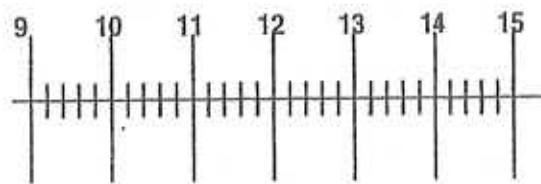
16.

(a) Read the value off the scale



Answer: _____

(b) Mark on the scale, with an arrow, the value 12.2



17.

Continue the patterns by writing in the spaces provided.

(a) 9, 13, 17, 21, _____, _____

(b) 34, 33, 31, 28, 24, _____, _____

18.

Year 6 at Mathstown School counted the number of Smarties in each of 100 tubes. They put their data in a table.

Number of Smarties in tube	Number of tubes
38	12
39	28
40	26
41	25
42	9

What is the **mode** number of Smarties in a tube?

Mode _____

19.

Calculate 406×67

Answer: _____

20.

Choose your answer from the following list

IMPOSSIBLE UNLIKELY EVEN CHANCE LIKELY CERTAIN

(a) a fair coin will land on Heads when you toss it? (a) _____

(b) a baby will be born somewhere in the world today? (b) _____

(c) a pair of dice will both land on 'six' when you throw them?
(c) _____

21.

Calculate $4 + 5 \times 3$

Answer: _____

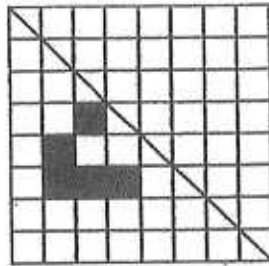
22.

Complete each of the following statements, putting in an appropriate **unit of measurement**.

- (a) The distance from Dundee to London is approximately 473 _____ or 766 _____
- (b) The height of a desk is approximately 70 _____
- (c) Mr.Pritchard's weight is 75 _____
- (d) The length of time it takes Stuart to clean his teeth is about 150 _____
-

23.

Complete this drawing using the line as a **mirror** line.



24.

- (a) If $c = a - b$ find c when $a = 9$, $b = 7\frac{1}{4}$

(a) _____

- (b) If $t = cd + m$ find t when $c = 3$, $d = 8$, $m = 10$

(b) _____

25.

I thought of a number.
10% of my number is 96
Find 15% of my number.

15% of my number is _____

26.

There are 36 coloured marbles in a bag.
One third of the marbles are red.
Sixteen of the marbles are blue.
The rest are yellow.

(a) How many yellow marbles are in the bag?

(a) _____

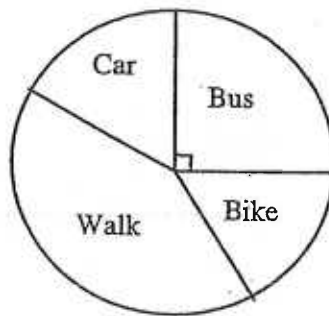
Two more blue marbles are put into the bag.

(b) What fraction of the marbles is now blue?

(b) _____

27.

The pie chart shows how 120 people travel to work.



How many people travel to work by bus?

Answer: _____

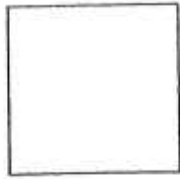
28.

Marco thinks of a number. He adds 4 and then trebles the result. The final answer is 27. What number did Marco think of?

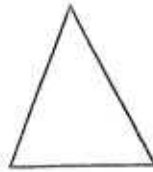
Answer: _____

29.

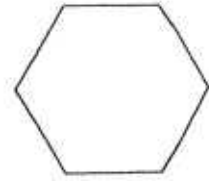
In each of the following diagrams, draw on the lines of symmetry.



SQUARE

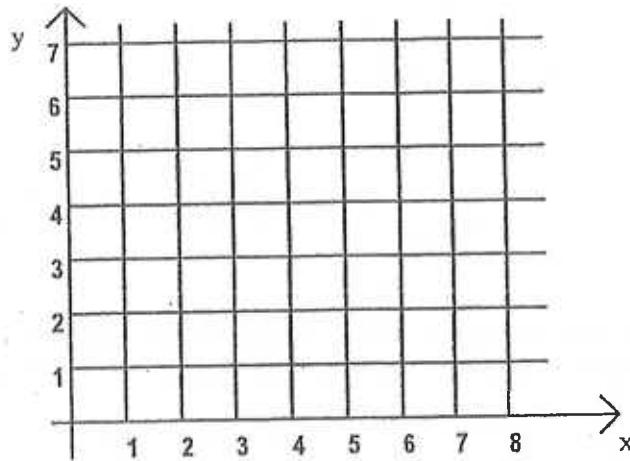


ISOSCELES
TRIANGLE



REGULAR
HEXAGON

30.

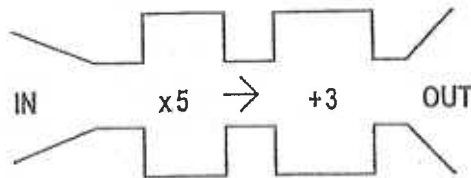


(a) Plot the points A(4,2) B(6,6) C(4,7)

(b) Find and plot point D to make a kite.

(c) Draw in any lines of symmetry

31.



Use the number machine to complete the following table.

IN	OUT
1	
	18
n	

32.

How many 250 millilitre glasses of lemonade can be filled from a jug holding 8 litres?

_____ glasses

33.

The mean average of 7, 8, 5, 6 and 4 is 6 because

$7 + 8 + 5 + 6 + 4 = 30$ and $30 \div 5 = 6$

The range is 4 because $8 - 4 = 4$

(a) What is the mean of 9, 4, 6 and 1?

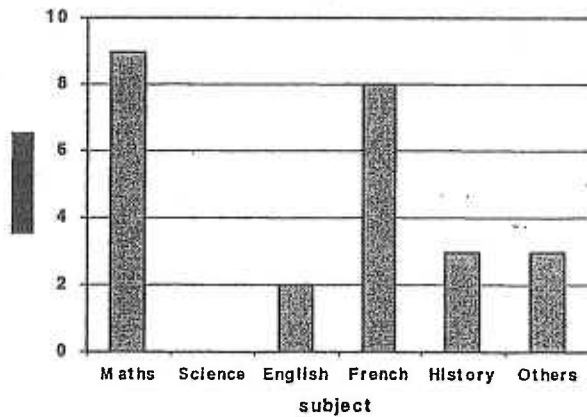
(a) _____

(b) What is the range of 9, 4, 6 and 1?

(b) _____

34.

Surinder asked some friends to name their favourite subjects at school. When she drew her tally chart and bar chart she left some gaps.



Subject	Tally	Frequency bars drawn
Maths		9
Science		6
English		2
French		
History		3
Others		3

(a) Use the bar chart to help you complete the tally and frequency for French.

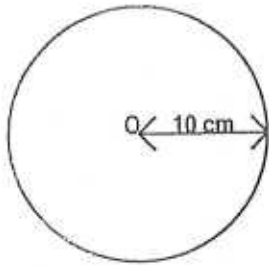
(b) Use the tally chart to help you draw the bar for Science.

35.

Using the formula for the area of a circle, find the area of the circle shown.

$$\begin{aligned}\text{Area of circle} &= \pi \times (\text{radius})^2 \\ &= \pi \times (\text{radius})^2\end{aligned}$$

Where $\pi (\pi) = 3.142$



Area _____ cm^2

36.

Joanne buys 1 pencil and 1 ruler for 49p.

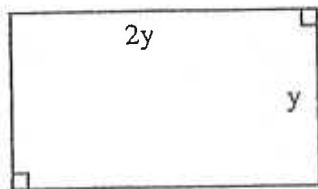
The next day she buys 3 pencils and 1 ruler for 79p.

(a) What is the cost of 1 pencil? (a) _____

(b) What is the cost of 1 ruler? (b) _____

37.

If the perimeter of the rectangle is 30cm, find the value of y .



$y =$ _____

38.

To make one litre of tropical juice you need 4 pineapples, 1 mango and 2 oranges.

(a) How many pineapples do you need to make 750ml of tropical juice?

(a) _____ pineapples

(b) One morning there are 28 pineapples, 9 mangoes and 14 oranges. How many litres of tropical juice can be made?

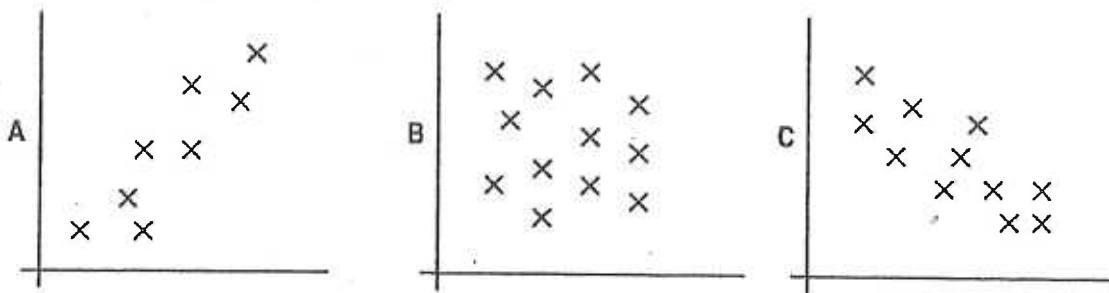
(b) _____ litres

(c) How many mangoes are left over?

(c) _____ mangoes

39.

Here are three scatter graphs.



Which of the graphs could show:

(a) mathematics test results vs. time to run 800m?

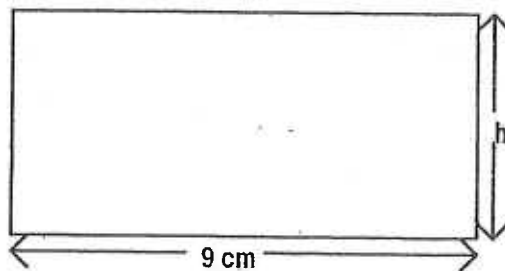
(a) Graph _____

(b) the weight of a plant vs. height of a plant?

(b) Graph _____

40.

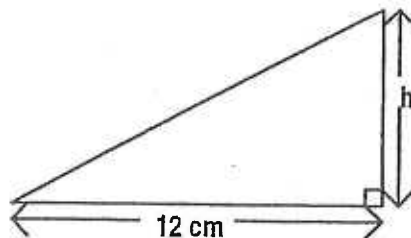
The area of this rectangle is 36 cm^2



(a) What is the height of the rectangle?

(a) _____ cm

(b) The area of this triangle is the same area as the rectangle.



Find the height of the triangle.

(b) _____ cm