SECTION A.
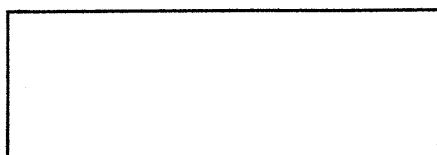
Do the following questions on the lined paper that you have been given.

Number your answers the same as the questions.
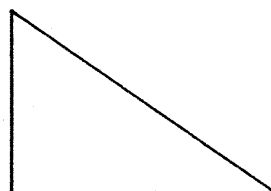
Calculators may be used.

1   Find the perimeter of the following shapes.
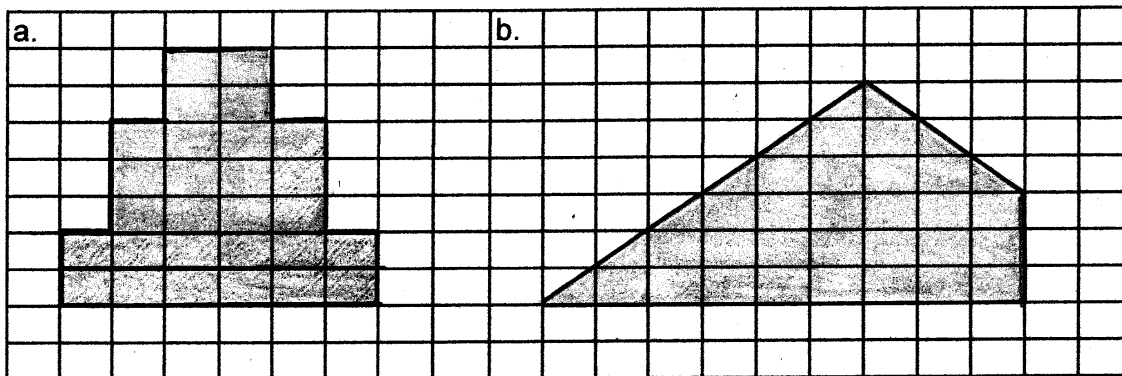   You will need to measure with your ruler.
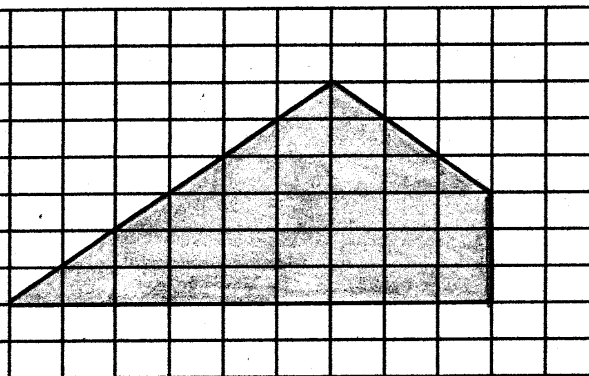
a.   b.   [3]

2   Write down the area of the following shapes.
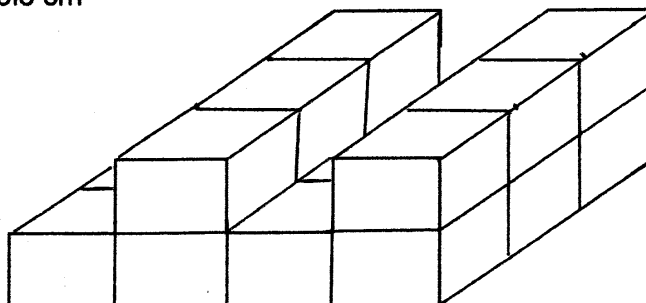   1 Square on the paper = 1square cm.

a.   b.

                                                  [2]

3 What is the volume of the following shape?
     Each cube = 1cubic cm

                                                [2]

4 <u>Probability</u>
   You have got a six-sided die with the numbers one to six.
   One number on each surface.

   a. If you roll the die once, what is the probability of getting a six.

   b. If you roll the die once, what is the probability of getting an even number?

   c. If you roll the die 24 times, how many times would it probably land on a 1?

   [3]

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5 <u>Problem Solving</u>
   Write an open number sentence for each sum.
   Show how you get your answer.
   Write an answer sentence.

   a. Amy, Caty and Jordan collect stickers. Amy has 4 751 stickers, Caty
       has 3 924 sickers and Jordan has 7 419 stickers.
       How many stickers do they have altogether ?   [2]

   b. Ashton can run 8 km 701 m in one hour. Jared can run 5 km 973 m in
       one hour. How much further can Ashton run than Jared ?   [2]

   c. Share R6 372 between Saarah and Lauren to the Ratio of 15 : 21 .   [3]

   d. Farmer Craig decides to plant apple trees on his farm.
       He plants 38 rows of trees. There are 76 apple trees in each row.
       How many apple trees did he plant ?   [3]

   e. (Write the answer only.)
       What is the sum of the difference between 24 and 16 and the product
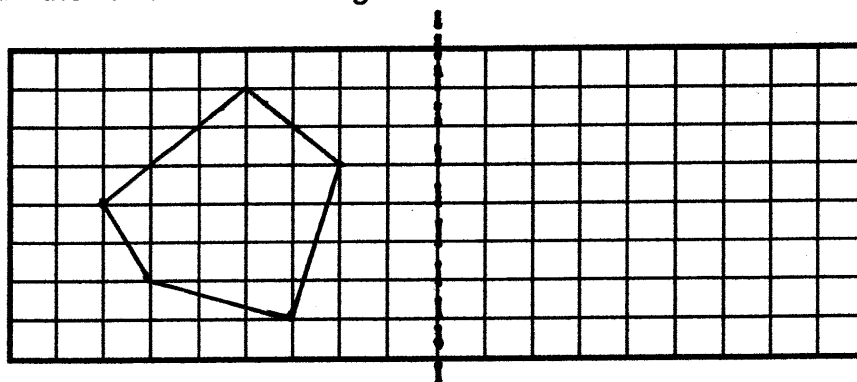   of 7 and 8 ?   [1]

[TOTAL 21]

MATHEMATICS
## PAPER 2

NAME : _____

SECTION B

All answers must be done on the question paper. Start by writing your NAME in the spaces provided on each page.

1. Draw the **reflection** of the figure in the dotted vertical line.

[1]

2. a. Translate the triangle eight squares to the right and three squares up. Label this triangle with A.

   b. Translate the triangle A down 6 squares and then rotate it 90° clockwise around the vertex at the right angle. Label this triangle with B.
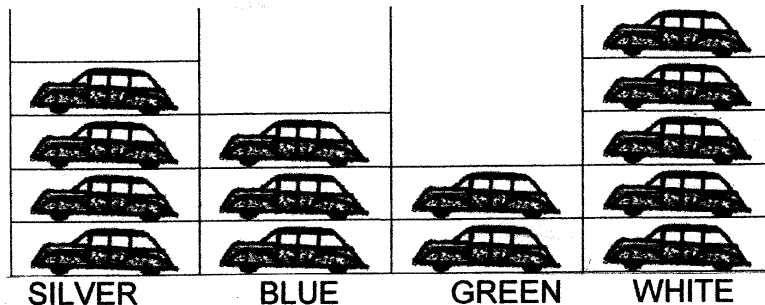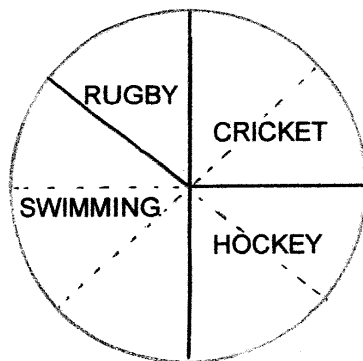

[2]
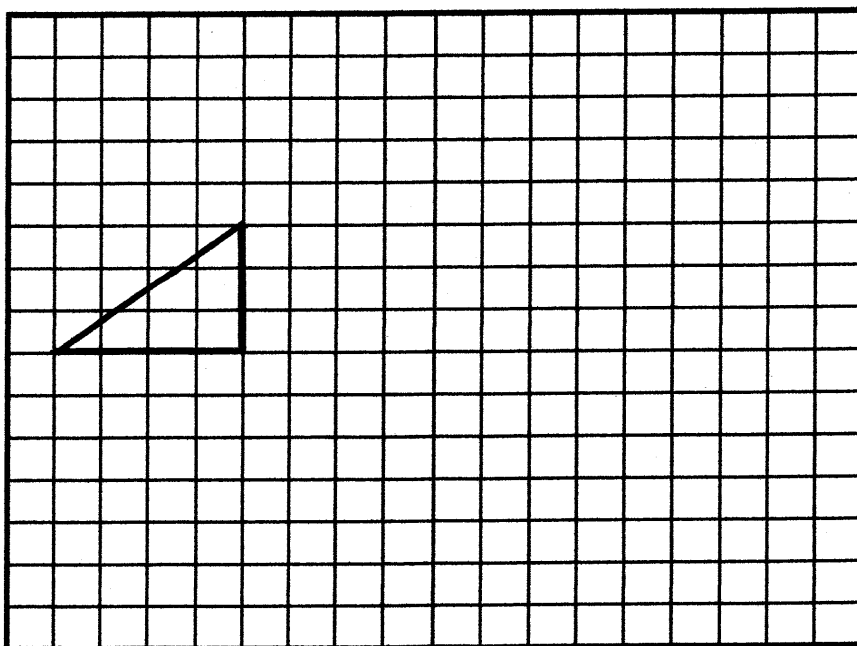
3. Nalium counted all the silver, blue, green and white cars which passed his house on Saturday morning. He illustrated the information using a PICTOGRAPH.

 represents 7 cars.

| SILVER | BLUE | GREEN | WHITE |

a. What was the total number of cars counted? _____

b. What fraction of cars were green? _____ [2]

4. Look at he following pie chart and answer the questions.

ROOM 30

SPORT

32 pupils

a. How many pupils play cricket and hockey? _____

b. How many pupils do swimming? _____ [2]

5. A group of Grade 5 pupils did a survey on what vegetables they enjoyed. The following were what the pupils chose.

carrots	pumpkin	pumpkin	cabbage
pumpkin	cabbage	beans	beans
beans	carrots	beans	carrots
pumpkin	beans	cabbage	beans
beans	pumpkin	beans	pumpkin
cabbage	beans	cabbage	carrots
pumpkin	cabbage	pumpkin	beans

a. Draw a frequency table below.

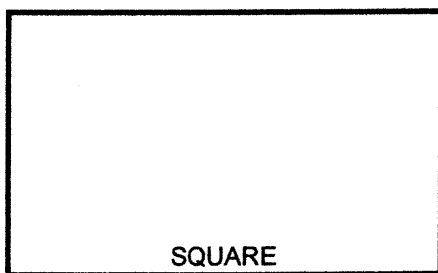| VEGETABLES		

[3]

b. Draw a bar graph showing your results.
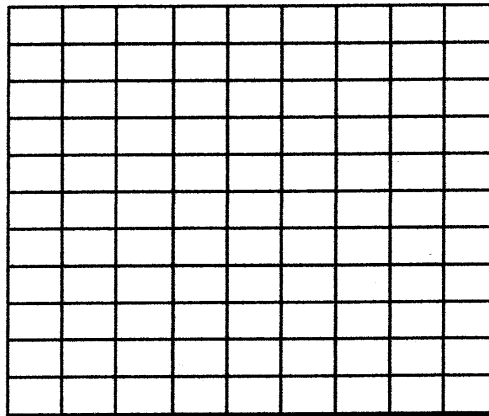
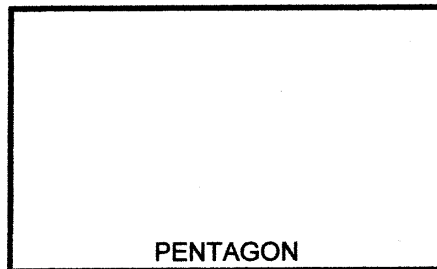[4]

6. Draw the following 2-D shapes.

SQUARE
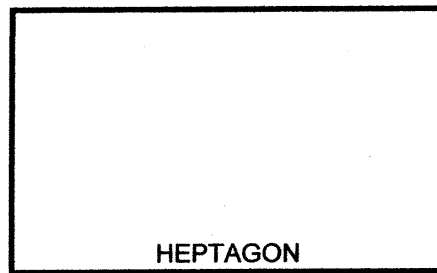
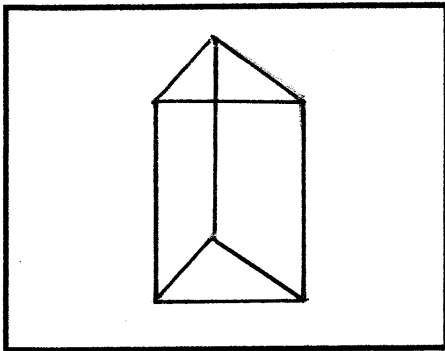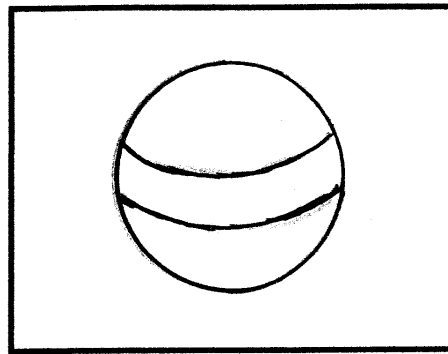| |
|---|
| HEPTAGON |
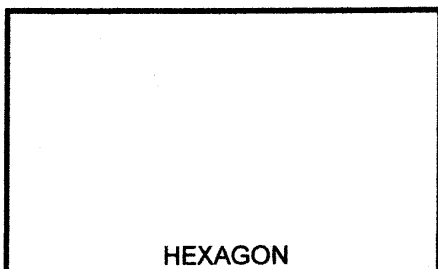
HEXAGON

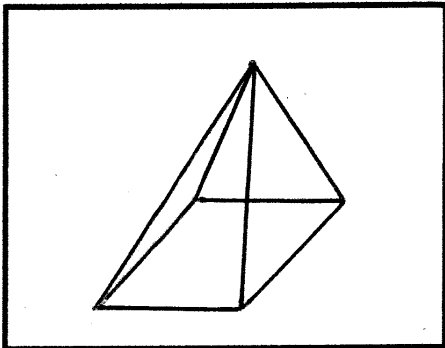| |
|---|
| PENTAGON |

[4 x ½ = 2]

7. Name the following 3-D shapes.

_____   _____

[3]

_____

8. Hamish and 5 friends bought tickets to a Cricket match.
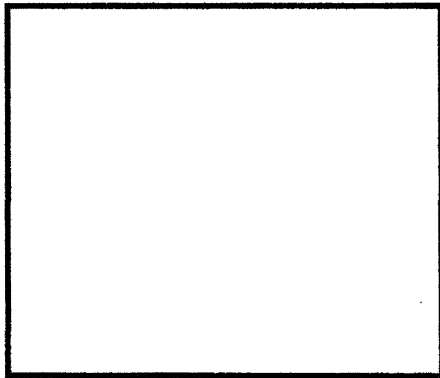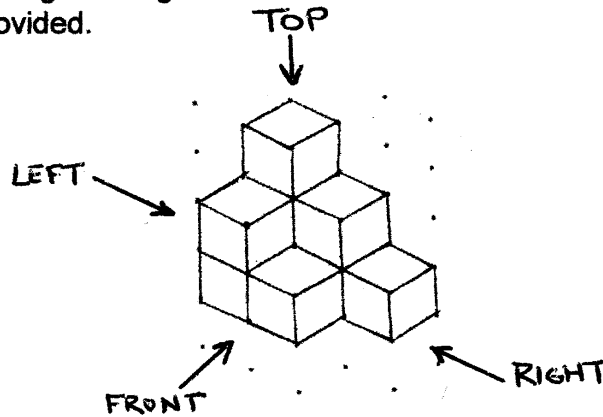   Their ticket numbers are as follows :-
   B4 , D12 , F2 , F7 , A5 and C3

   Mark the seats on the grid and number them with numbers 1 to 6.
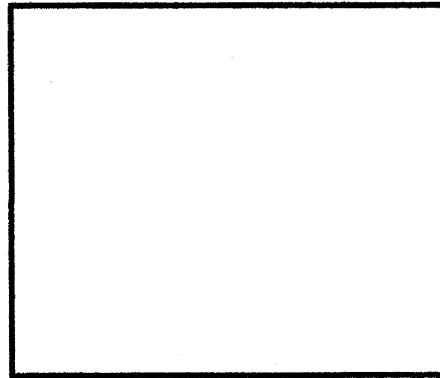

[3]

9. Look at the following drawing and draw the TOP VIEW and the RIGHT VIEW in the spaces provided.

TOP VIEW   RIGHT VIEW   [2]

****

PLEASE DO THE FOLLOWING CHECKS WHEN YOU HAVE COMPLETED YOUR EXAM :-

1. Check that you have done ALL the sums and numbered them correctly.

2. Check that you have copied the numbers correctly.

3. Check that you have answered the questions correctly.

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