WELSH JOINT EDUCATION COMMITTEE

ENTRY LEVEL CERTIFICATE

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736/01

Entry Level Certificate

MATHEMATICS

FINAL EXAMINATION

A.M. TUESDAY, 28 March 2006

(1 Hour 15 minutes)

For Examiner's use only	
Pages	**Total mark per double page**
2, 3	
4, 5	
6, 7	
8, 9	
10, 11	
12, 13	
14, 15	
16, 17	
18, 19	
20, 21	
22, 23	
24	
TOTAL	

ADDITIONAL MATERIALS

In addition to this examination paper, you will need:

- a calculator;
- a ruler.

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions in the spaces provided in this booklet.
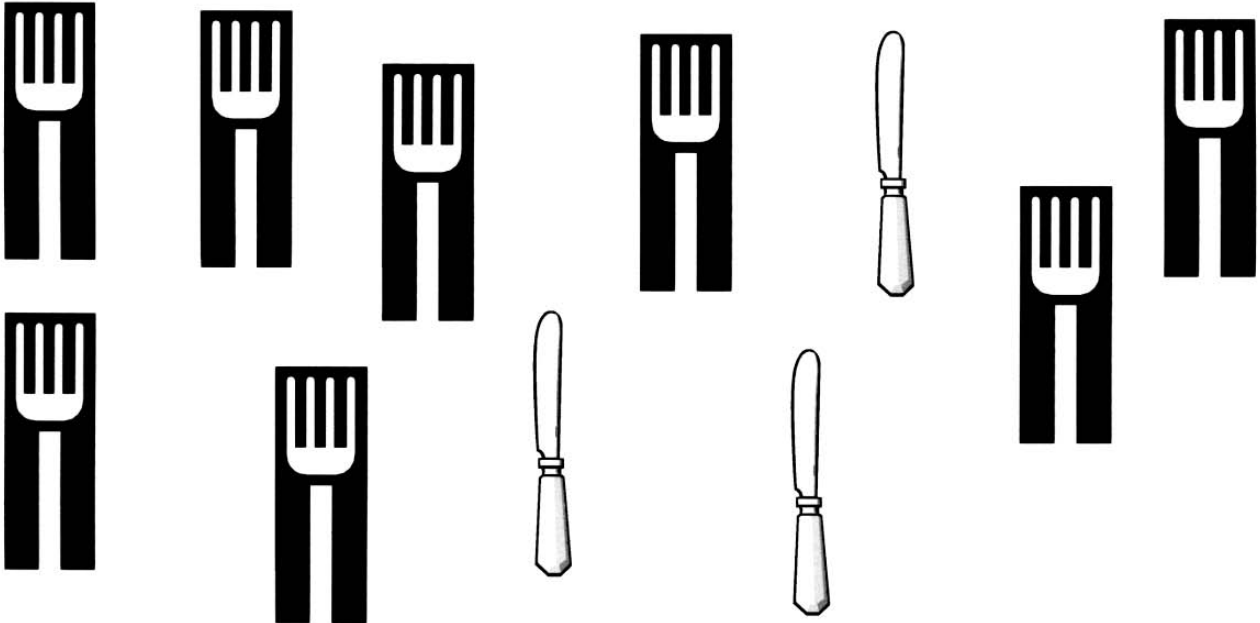
All working must be shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

1. The diagram shows some knives and some forks.

(a) How many forks are there?

Answer: ....

(b) How many extra knives would be needed so that there are the same number of knives as there are forks?

Answer: ....

[2]

2. Write down all the **odd** numbers between 16 and 24.

....

....

[1]

3. Calculate

(a) 429 + 376,

....

....

....

[1]

(b) 3224 ÷ 8.

....

....

....

[1]

4. Place a circle around the **longest** of the following lengths.

5·31 m   543 cm   66·0 cm   5·47 m

[1]

Turn over.

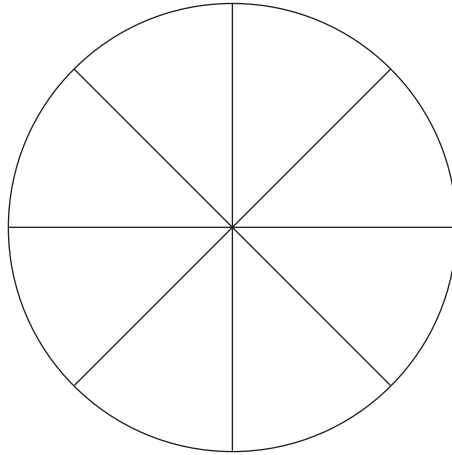**5.** Shade $\frac{3}{4}$ of this diagram:

[1]

6. £30 is divided between Ann and Brian so that Ann has **5 times as much** as Brian.

How much does Ann get?

....

....

[1]

7. On a given day the temperature in Cardiff was 7°C and the temperature in York was – 4°C. Complete the following statement.

Cardiff was .... °C warmer than York.

[1]

8. A thin wooden rod has a length of **1m**. Peter cuts pieces each of length **12 cm** from the rod.

(a) What is the maximum number of pieces that Peter can cut from the rod?

....

Answer: ....

[1]

(b) What length of the rod would be left over?

....

Answer: ....

[1]

9. A school wins £800 in a competition. The school decides to give 25% of the amount won to charity, and to give the remainder to buy equipment for the library.

(a) Write down the **amount** given to charity.

....

....

[1]

(b) Write down the **percentage** (%) of the amount won which is given to the library.

....

....

[1]

Turn over.

10. Complete the following bill.

3 lb peas at 47p per lb.   £ ....

5 lb raspberries at £1.07 per lb.   £ ....

                                  Total   £ ....

[2]

11. Write down the next number in this number pattern:

          19,   15,   11,   7, ...

Answer: ....

How did you find this number?

....

....

[2]

12. A paper boy earns £4.50 per day from Monday to Friday, £5.50 on Saturday and does not work on Sunday.

Calculate the total amount he earns in a week.

....

....

....

[2]

13. The owner of a shop works out the amount he owes in VAT.

The answer (in £s) is shown on his calculator as

$$1249.84702$$

Write down this sum of money

(a) to the nearest penny,

Answer: ....

[1]

(b) to the nearest £.

Answer: ....

[1]

Turn over.

14. These are number cards.
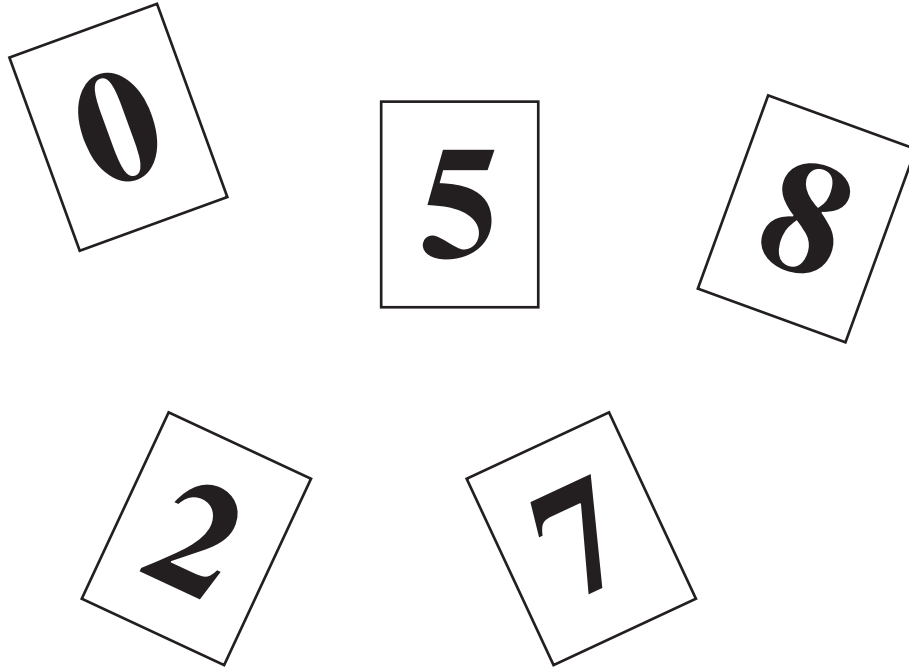
(a) Write down the biggest number you can make with any **three (3)** of these cards.

....	....	....

[1]

(b) Using **three (3)** of these cards write down a number which is **ten times bigger** than **twenty seven (27)**.

....	....	....

[1]

(c) Write down the **smallest** number you can make with **three (3)** of these cards, **one (1)** of which has been placed for you.

2	....	....

[1]

Turn over.

15. This is a number machine:

NUMBER IN $\longrightarrow$ $\boxed{\times 2}$ $\longrightarrow$ $\boxed{-8}$ $\longrightarrow$ **NUMBER OUT**
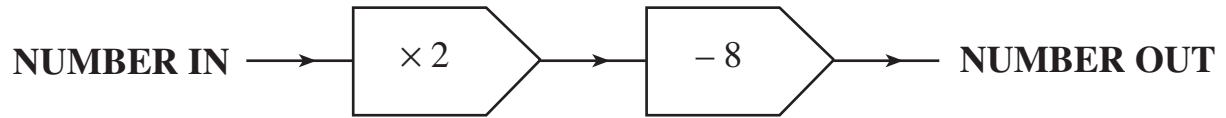
Example: When the **NUMBER IN** is 7, the **NUMBER OUT** is 6.

Now answer the following questions.

(a) When the **NUMBER IN** is 10, what is the **NUMBER OUT**?

....

....

[1]

(b) When the **NUMBER IN** is 0, what is the **NUMBER OUT**?

....

....

[1]

(c) When the **NUMBER OUT** is – 4, what is the **NUMBER IN**?

....

....

[1]

16. Look at this diagram:
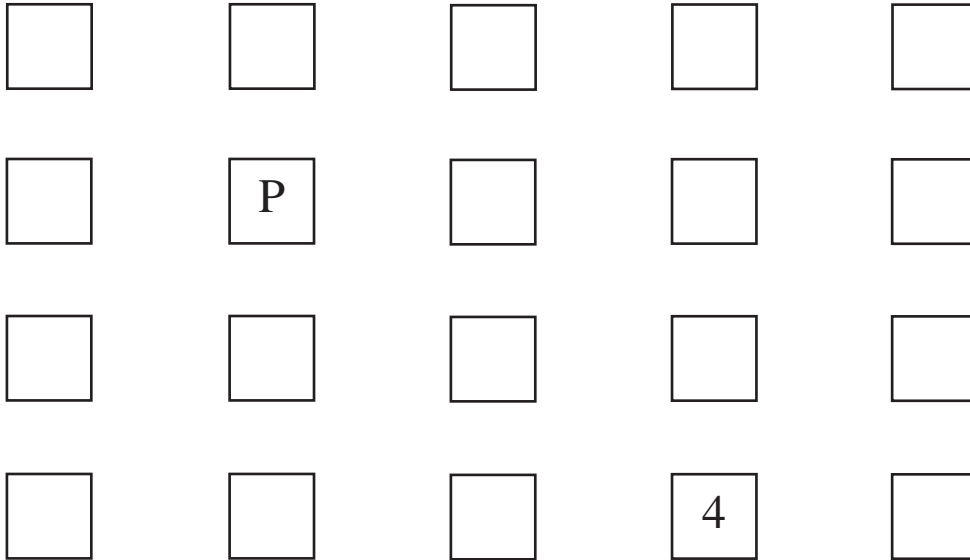
(a) Put the number 6 in the box which is **two boxes above** the 4.

(b) Put the letter Q in the box immediately **to the right** of the letter P.

[2]

Turn over.

17. Angles *x*, *y* and *z* are shown in these diagrams.
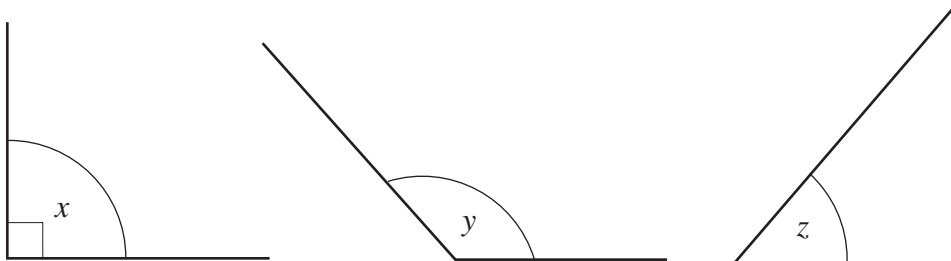
Complete the following statements.

    (i)   The **acute** angle is angle ....

    (ii)   The **obtuse** angle is angle ....

[2]

18. These diagrams show sections of scales used on different tape measures.
On each diagram the arrow is pointing to the length of different objects.
Write down the length shown in each diagram. **Include the units** used in each
case.

(a)

Answer: ....

[1]

(b)

Answer: ....

[1]

Turn over.
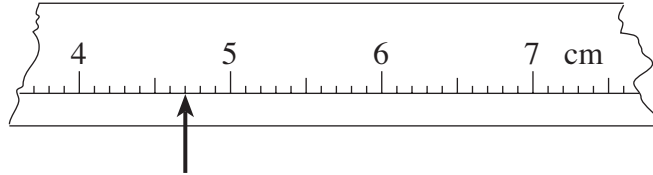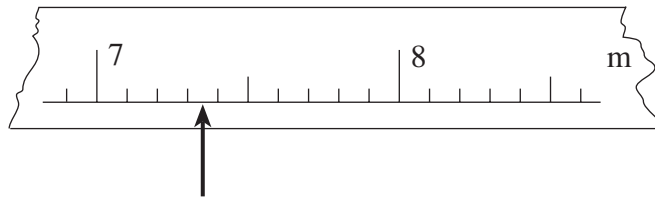
19. The diagram shows a parcel in the shape of a cuboid.
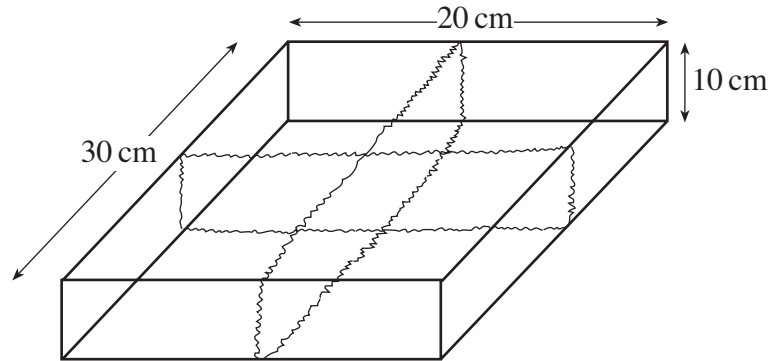
String (shown by ~~~~ in the diagram) is used to tie the parcel. An extra 4 cm

of string is needed to tie the knot.

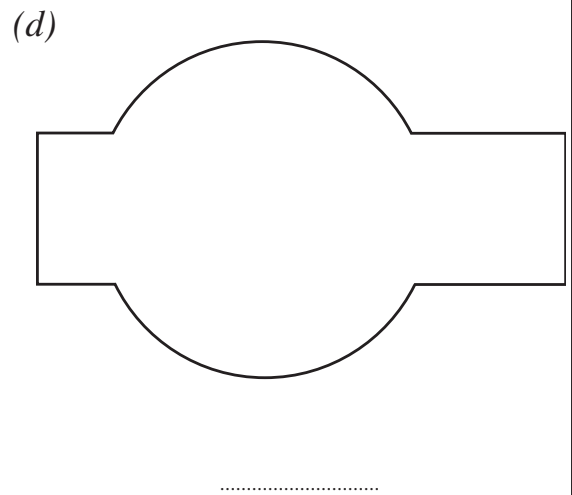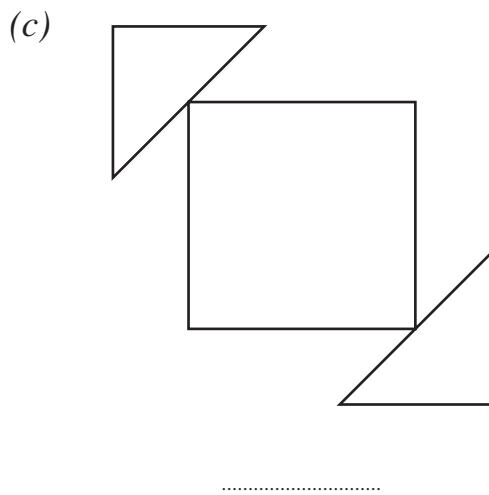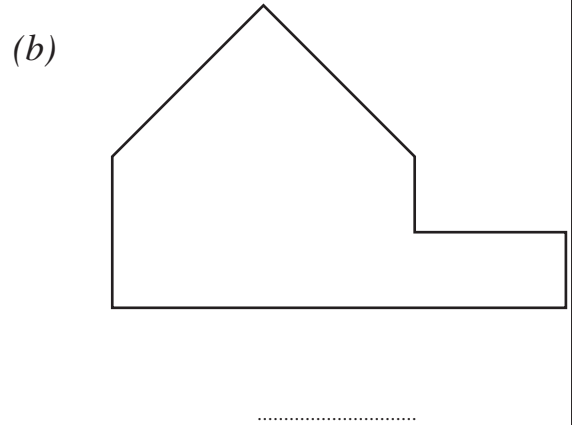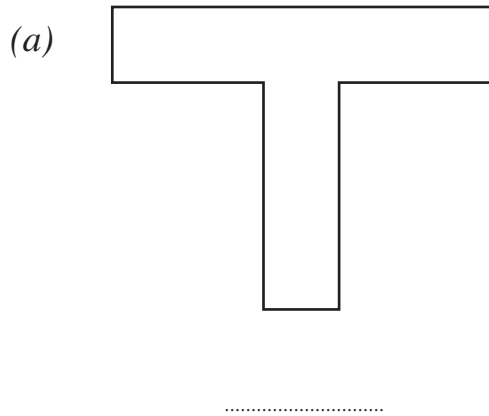What total length of string is needed?

....

....

....

....
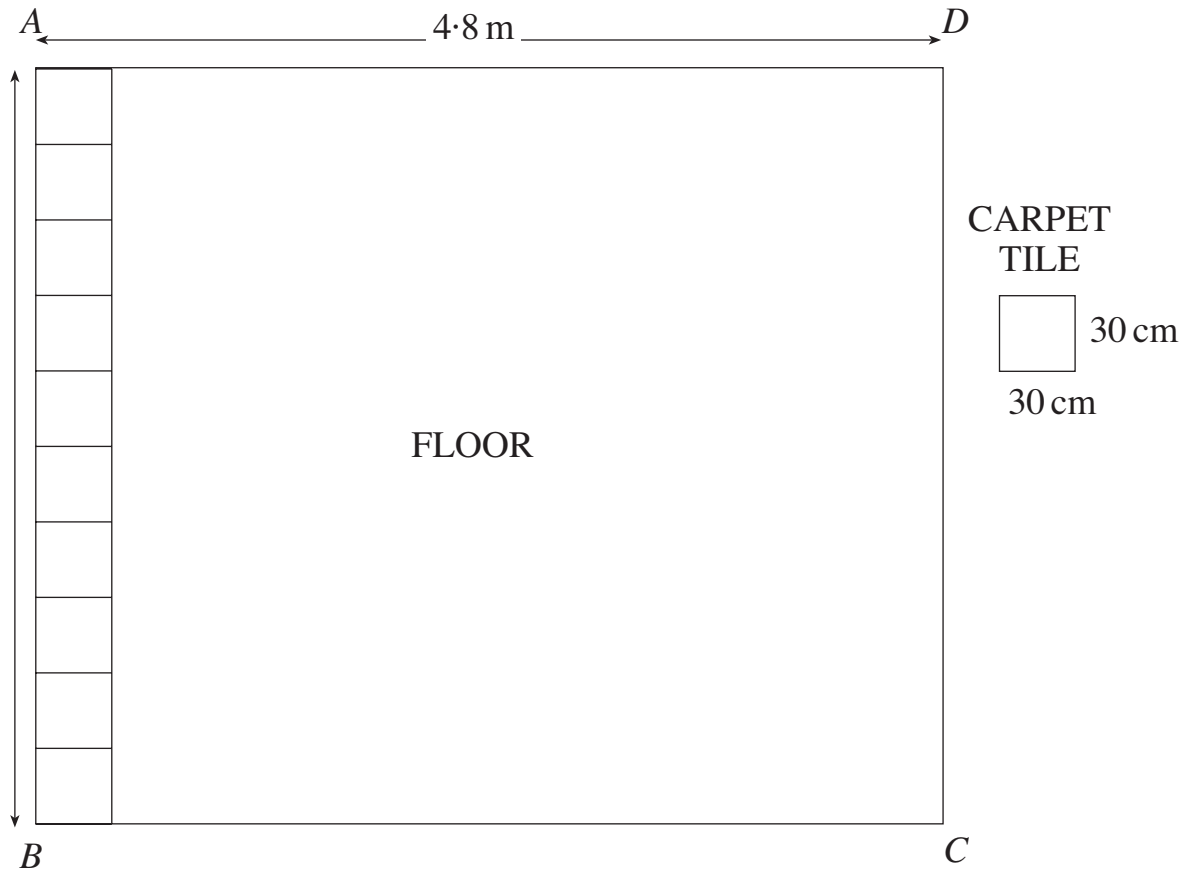
[2]

20. Some of the following diagrams have **mirror symmetry**. Place a **tick** (✓) under each diagram which has mirror symmetry and **then draw its mirror line**.

(a)

(b)

....

....

(c)

(d)

....

....

[3]

Turn over.

21. The floor *ABCD* of a room has the following measurements.

A ←——————————— 4·8 m ———————————→ *D*

CARPET
TILE

30 cm

30 cm

FLOOR

B   *C*

The room is to be covered with square carpet tiles, each tile measuring 30 cm by 30 cm. Ten (10) carpet tiles can be laid along the edge *AB* of the floor.

(a) Find the length of the edge *AB* of the floor.

....

....

[1]

(b) How many tiles can be laid along the edge *AD* of the floor?

....

....

[2]

(c) How many tiles are needed to cover the whole floor?

....

....

[1]

22. This is part of a bus timetable. The bus starts at The Hospital and runs via Blue Street, Green Avenue, Orange Grove and Red Lane before reaching its destination at the Railway Station.

The Hospital	07.13	07.56	08.21	09.26
Blue Street	07.16	07.59	08.24	09.29
Green Avenue	07.22	08.05	08.30	09.35
Orange Grove	07.25	08.08	08.33	09.38
Red Lane	07.31	08.14	08.39	09.44
Railway Station	07.46	08.31	09.01	10.01

(a) Alan travels from The Hospital to Red Lane. If he catches the bus which leaves The Hospital at 07.56, at what time should he reach Red Lane?

Answer: ....

[1]

How long has the journey taken him?

Answer: ....

[1]

(b) Mary works at The Hospital. She has a train to catch. The train leaves the Railway Station at 09.10.

Write down the latest departure time from The Hospital which will allow Mary to catch her train.

Answer: ....

[1]

Turn over.

23. When a coin is tossed the outcome is *either* a **head** (H) *or* a **tail** (T).

June tosses a coin **three (3)** times in succession and records her results.

This is **one (1)** of the possible outcomes:

H T H

Make a list of **all** the different possible outcomes.

....

....

[2]

24. Write down whether these things

   will happen   or
   could happen   or
   will not happen.

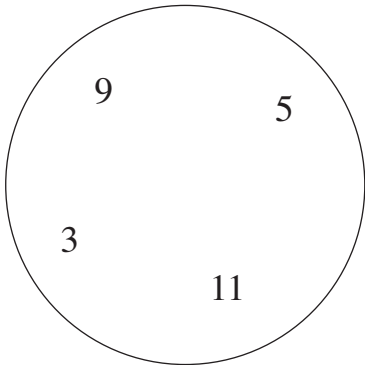*(a)* November 1st 2007 will come before September 17th 2007.

Answer: ....

[1]

(b) Somewhere in the world it will rain tomorrow.

Answer: ....

[1]

Turn over.

25.

SET A

```
        9
              5

    3
         11
```

SET B

```
          4

   8             2

         12
```
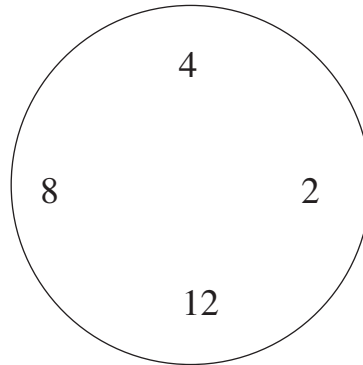
(a) In which set would you put the number 10?

Answer: **SET** ....

[1]

(b) Explain why.

....

....

....
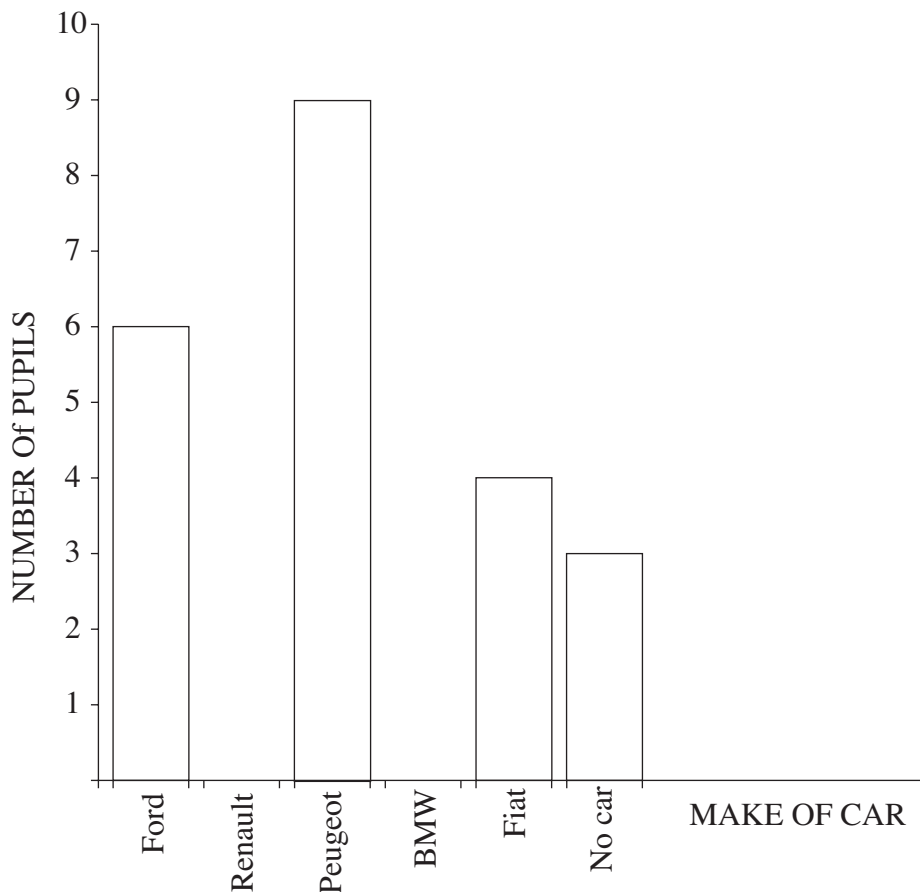
[1]

26. Pupils in Class 3Z were asked to name the make of car (if any) used by their parents. Some of the answers are given in the following table and the others are given in the bar chart.

CAR	Ford	Renault	Peugeot	BMW	Fiat	No Car
Number of pupils	....	7	9	2	....	3

(a) (i) Use the bar chart to complete the table.

(ii) Use the table to complete the bar chart.

[4]

(b) How many pupils were in Class 3Z?

Answer: ....

[1]

Turn over.

27.

Distance
in
km
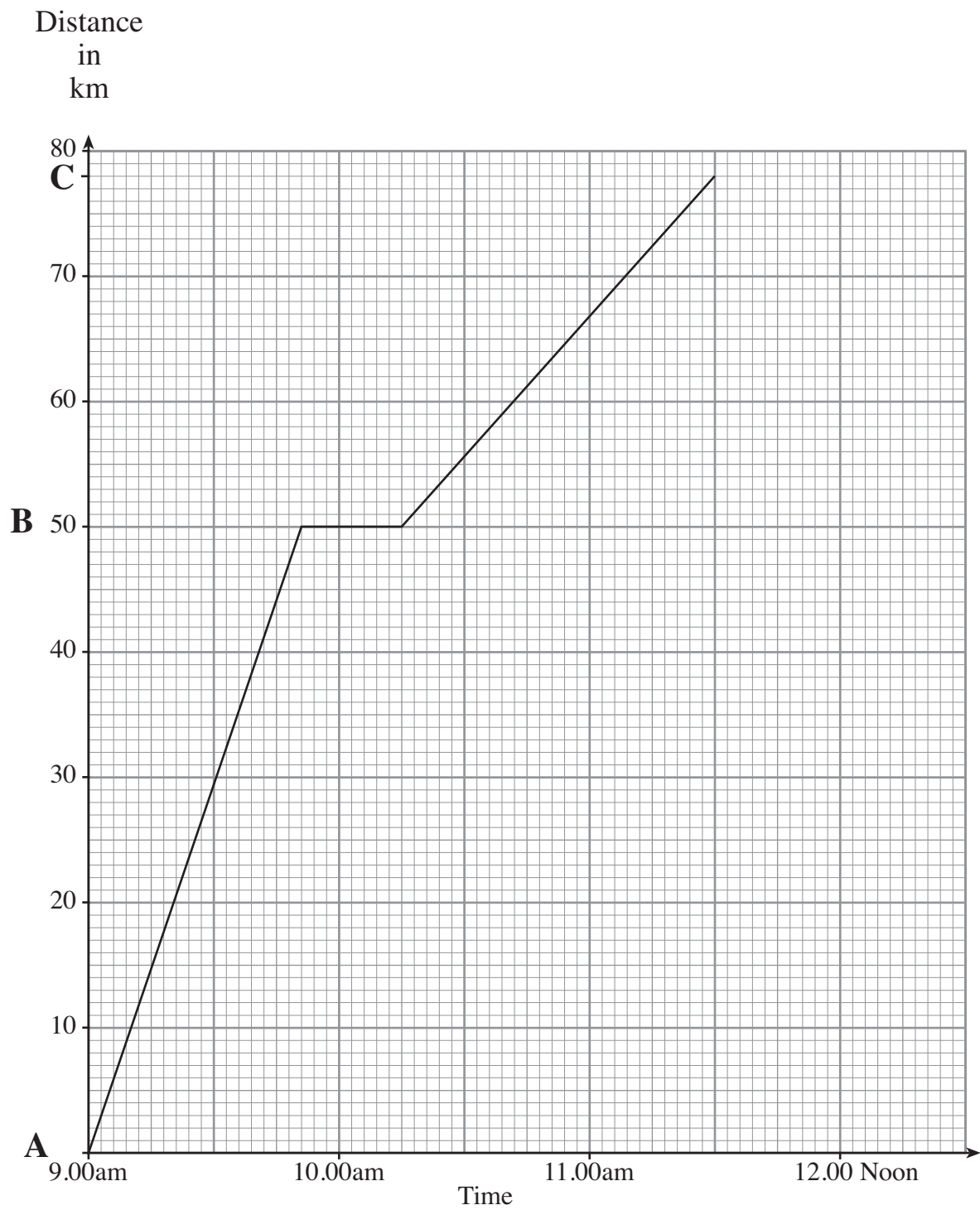
Time

The graph opposite represents the journey by train from town A to town B and then on to town C. Use your graph to find

(a) how far town C is from town A,

Answer: .... km

[1]

(b) the time that the train arrives at town C,

Answer: ....

[1]

(c) for how long the train stops at town B,

Answer: ....

[1]

(d) how long the train takes to go from town B to town C.

Answer: ....

[1]

Turn over.

28.

Coco   Lisa   Mary

Tom   Sue   Henry

Put the names of the people in the correct places in the table below.
One has been done for you.

	Is holding an umbrella	**Is not** holding an umbrella
Is carrying a bag	Henry	
Is not carrying a bag		

[3]