

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE



CYD-BWYLLGOR ADDYSG CYMRU

ENTRY LEVEL CERTIFICATE

TYSTYSGRIF LEFEL MYNEDIAD

736/01

Entry Level Certificate

MATHEMATICS

FINAL EXAMINATION

A.M. TUESDAY, 20 March 2007

(1 Hour 15 minutes)

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.

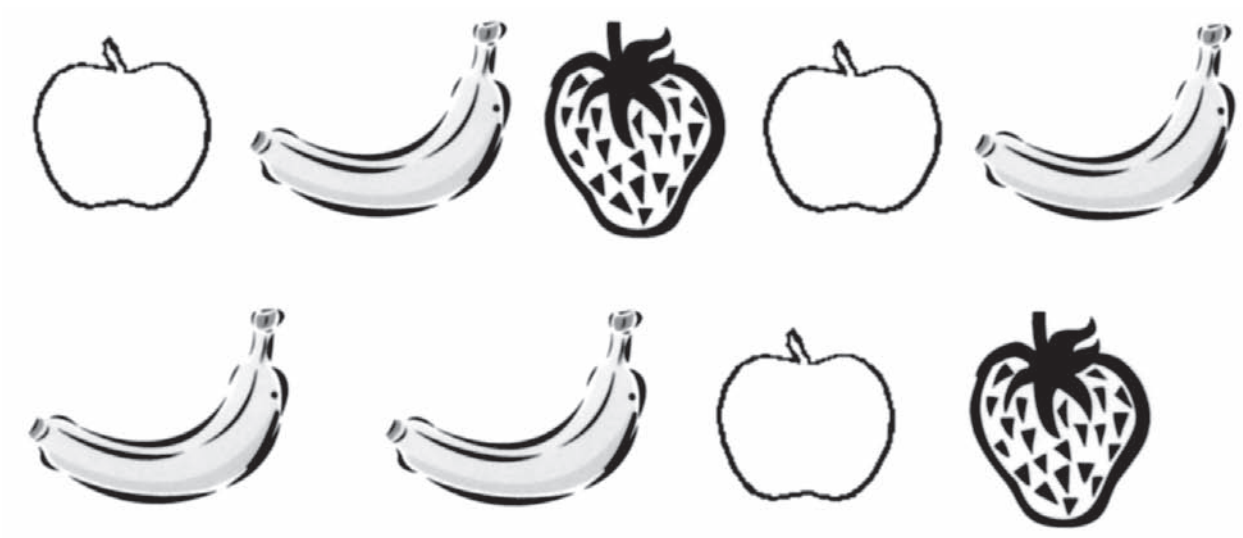
For Examiner's use only	
Pages	Total mark per double page
2, 3	
4, 5	
6, 7	
8, 9	
10, 11	
12, 13	
14, 15	
16, 17	
18, 19	
20, 21	
22, 23	
TOTAL	

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 pictures of some fruit.



- (a) How many bananas are there?

Answer:

- (b) What **fraction** of the fruit shown are apples?

Answer:

[2]

2. Calculate

(a) $432 - 79$,

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

[1]

(b) 9×68 .

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

[1]

3. Write down in **figures** the number **ten thousand and twenty**.

Answer:

[1]

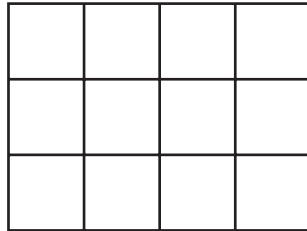
4. Write down these numbers in order of size, **starting with the smallest**.

2, -1, 0, -4, 1

.....

[1]

5. Shade **25%** of this diagram:



[1]

6. Here are **two (2)** ways of making **18** using multiplication:

$$2 \times 9 = 18$$

$$9 \times 2 = 18$$

Write down **two (2)** other ways of making **18** using multiplication.

$$\dots \times \dots = 18$$

$$\dots \times \dots = 18$$

[2]

7. The number 7 has the same **position** in these numbers.

576, 49070, 8371

What is the **value** of the 7 when written in that **position**?

Answer:

[1]

8. Drinking mugs are sold in a shop for £2.49 each.

(a) Millie buys 4 mugs.

How much do they cost her?

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

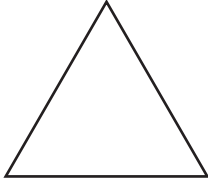
(b) Siôn has £20 to spend on mugs.

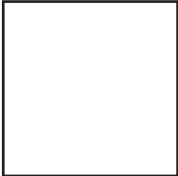
How many mugs can Siôn buy?

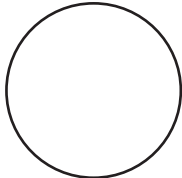
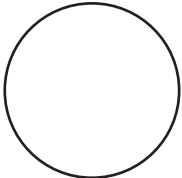
.....
.....
.....

[2]

9. Write down the missing numbers in the shapes below.

(a) 3 ×  = 12

(b)  ÷ 5 = 3

(c) 9 ÷  = 

[3]

10. Write down the next number in **each** of these number patterns.

(a) 1, 2, 4, 8, 16,

Answer:

(b) 3, 5, 7, 9,

Answer:

(c) 14, 11, 8, 5, 2,

Answer:

[3]

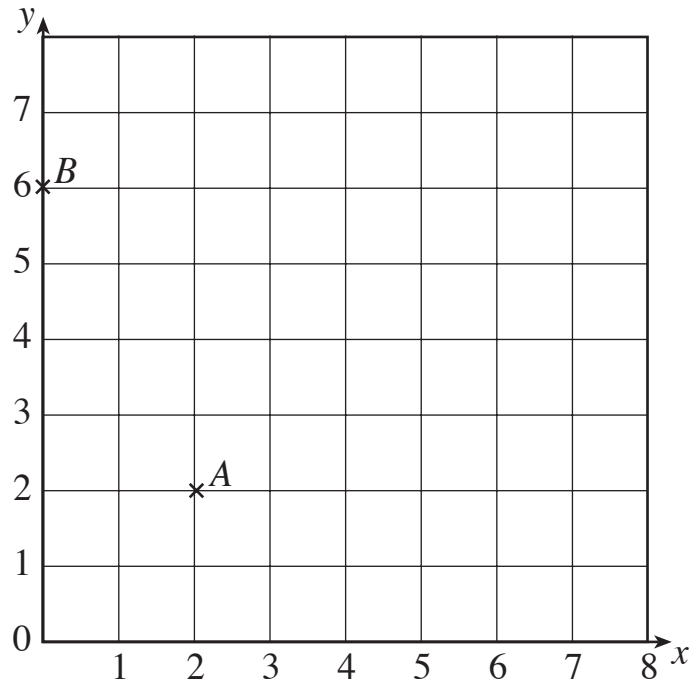
11. Mr. and Mrs. Long take their **three (3)** children to the zoo. Their children are Amanda (aged 9), Barry (aged 7) and Claire (aged 3).
Adults and children older than 11 years old pay £9.50 each.
Children aged between 6 years old and 11 years old pay £3.50 each.
Children younger than 6 years old are allowed in free.

Complete the following bill and find the total cost.

Cost for Mr. and Mrs. Long	£ .
Cost for the children	£ . _____
Total cost	£ . _____

[3]

12.



The position of point A is $(2, 2)$.

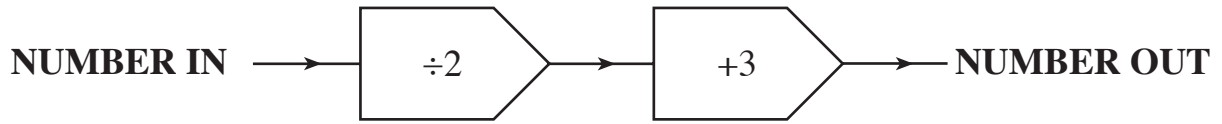
(a) Write down the position of the point B .

Answer: $B(\quad , \quad)$

(b) Plot the point C which has position $(5, 7)$.

[2]

13. This is a number machine:



Example: When the **NUMBER IN** is 4, the **NUMBER OUT** is 5.

Now answer the following questions.

(a) When the **NUMBER IN** is 6, what is the **NUMBER OUT**?

.....

.....

(b) When the **NUMBER IN** is 3, what is the **NUMBER OUT**?

.....

.....

(c) When the **NUMBER IN** is 10·4, what is the **NUMBER OUT**?

.....

.....

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

.....

.....

[4]

14. One tin of paint can cover 42 m^2 of a wall.

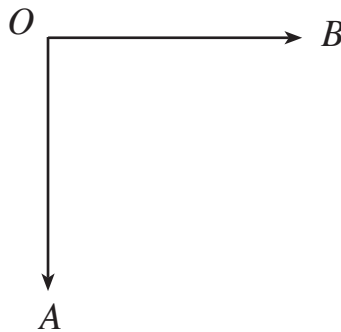
How many of these tins of paint would be needed to cover a wall of size 230 m^2 ?

.....
.....

Answer: tins

[2]

- 15.



The pointer is fixed at O .

The pointer is moved from position OA **clockwise** to position OB .

Through how many **right-angles** has the pointer turned?

Answer: right-angles.

[1]

16. Change the following a.m. and p.m. times into 24 hour times.

(a) 8.40 p.m.

(b) 8.20 a.m.

(c) 12 midday.

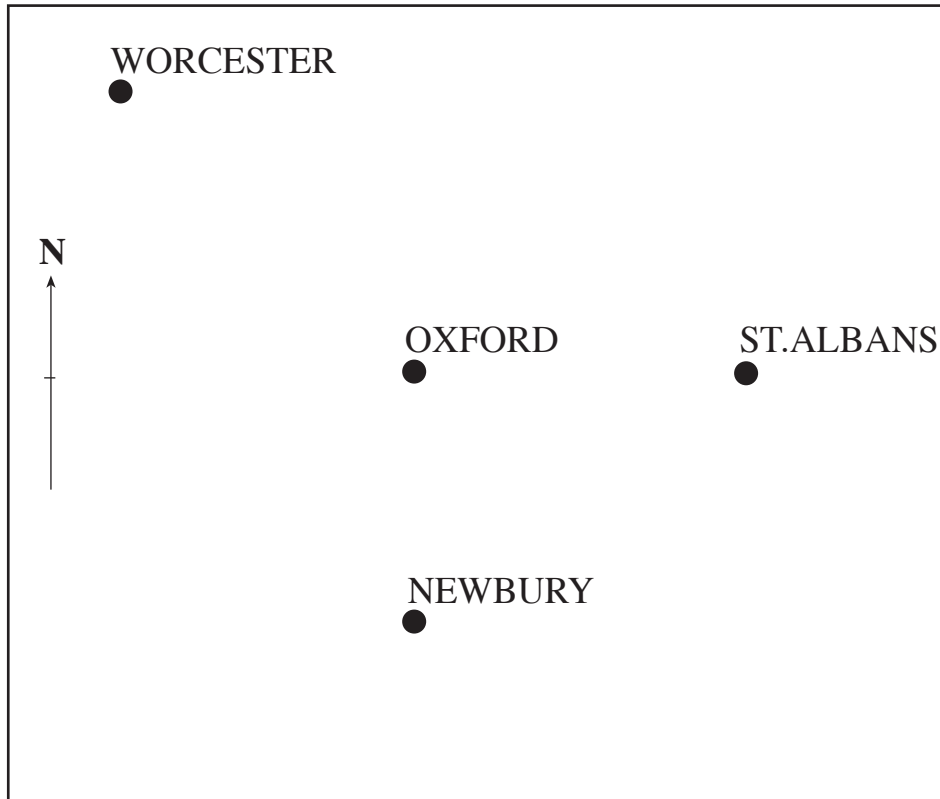
Answers: (a)

(b)

(c)

[3]

17.



Pick the correct direction from this list:

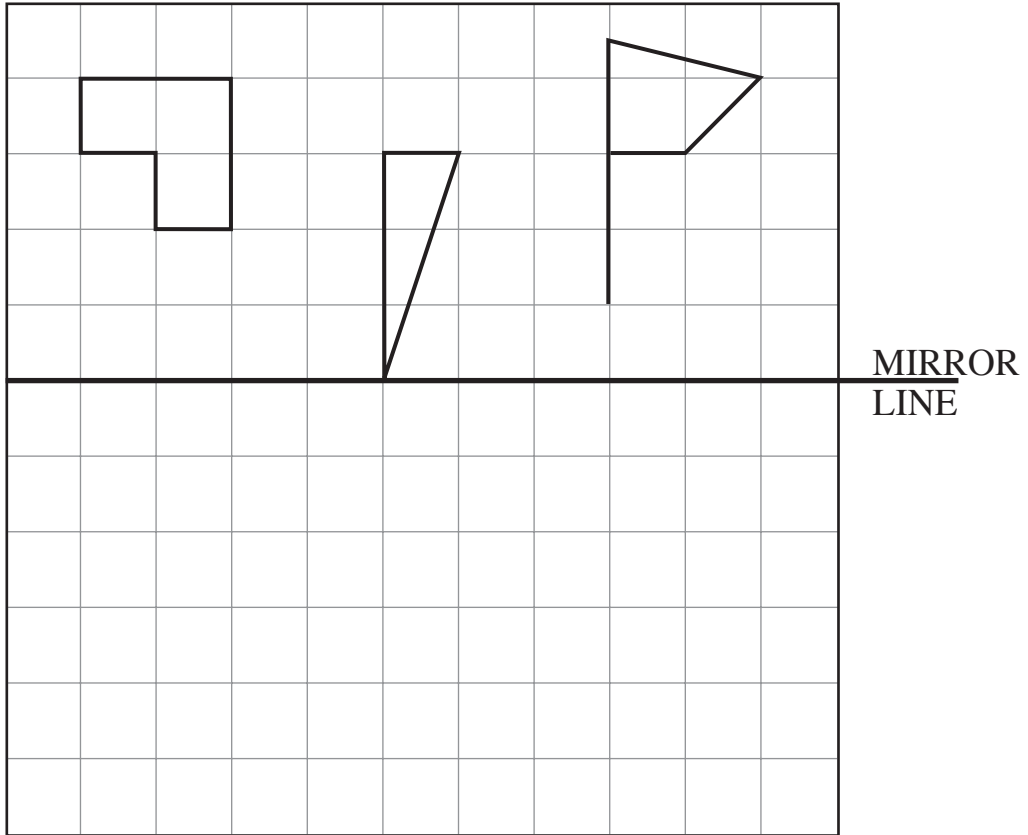
north, east, south, west, north-west,
south-west, north-east, south-east

and then fill in the spaces in the following statements.

- (a) Oxford is of Newbury.
 (b) Newbury is of St. Albans.
 (c) Worcester is of Oxford.

[3]

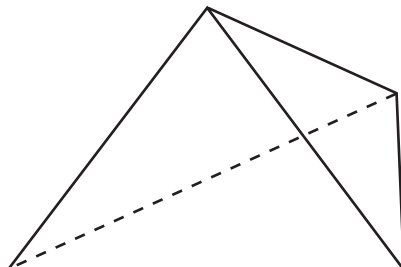
18.



Draw the **reflection** of **each** of the above shapes in the mirror line.

[3]

19. One piece of a child's set of building blocks is in the shape shown in the diagram.



- (a) How many **corners** does the shape have?

Answer:

- (b) How many **edges** does the shape have?

Answer:

- (c) How many **faces** does the shape have?

Answer:

[3]

20. This is part of Mike's Monday timetable:

8.45 a.m.	Registration
8.55 a.m.	English
9.40 a.m.	Mathematics
10.25 a.m.	School Assembly
10.45 a.m.	Morning Break
11.05 a.m.	Science

Use the above timetable to answer the following questions.

(a) How long **in minutes** does the Mathematics lesson last?

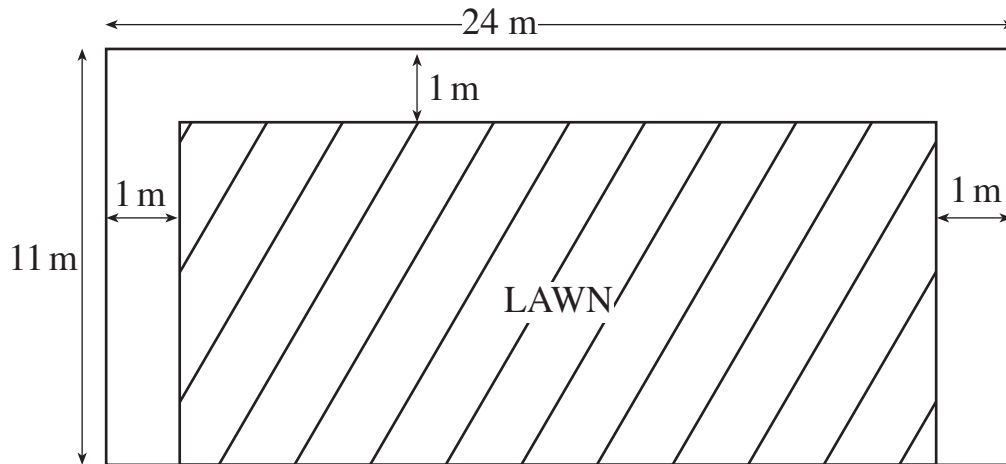
Answer: minutes

(b) The Science lesson lasts for 1 hour and 10 minutes. At what time will the Science lesson end?

Answer:

[2]

21.



A rectangular plot of ground is converted into a lawn with a border on three sides of the lawn as shown in the diagram.

The plot of ground measures 24 m by 11 m.

The border is 1 m wide.

(a) How **long** is the lawn?

Answer: m

(b) How **wide** is the lawn?

Answer: m

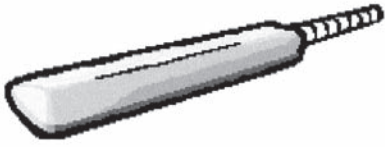
(c) Find the area of the lawn.

.....

Answer: m²

[3]

22. Sort the following into **two (2)** groups.



BAT



BIKE



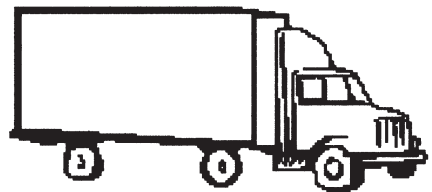
BUS



CAR

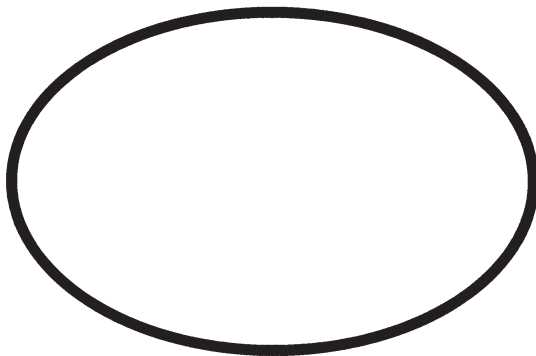


RACQUET

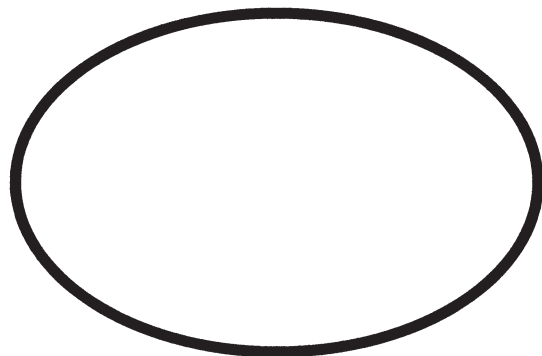


LORRY

Put the names in these circles:



GROUP 1



GROUP 2

How did you choose your groups?

.....

.....

.....

.....

[2]

23. Bob makes a note of the number of telephone calls he received each day over a period of 20 days.

2, 5, 7, 3, 6, 0, 2, 5, 4, 4,
2, 3, 6, 0, 4, 5, 8, 3, 4, 3.

Bob arranges this information in the form of a table.

Number of calls received per day	Number of days this happens
0	
1	
2	
3	4
4	4
5	
6	
7	1
8	

- (a) Complete the table.
- (b) How many calls were received in total over the 20 days?

.....
.....

Answer:

[2]

24. The school shop decides to sell 'ZING', a new soft drink. The sales of 'ZING' during the first three days of a week are shown below.

MONDAY 

TUESDAY 

WEDNESDAY 

THURSDAY

FRIDAY

KEY:  = 2 drinks,  = 1 drink

- (a) How many drinks were sold on Tuesday?

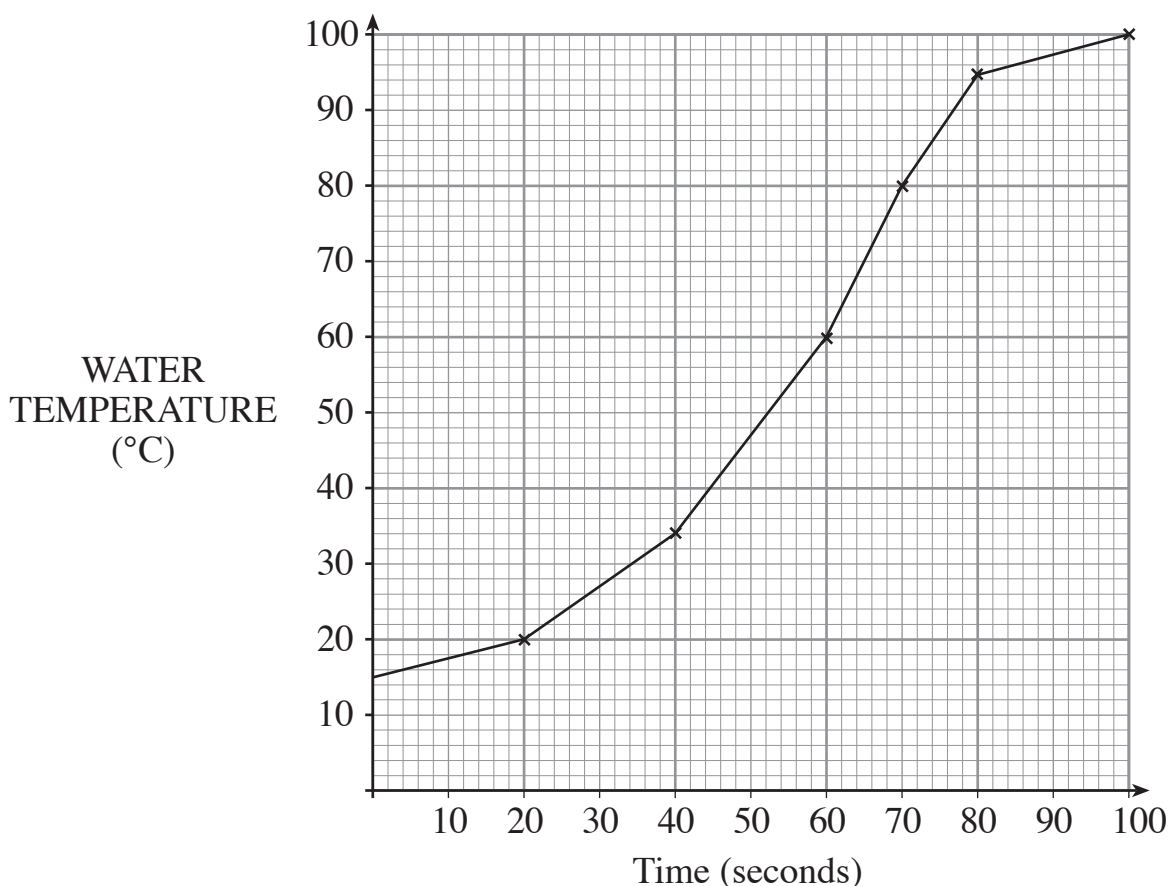
Answer:

- (b) 4 drinks were sold on Thursday and 9 drinks were sold on Friday. Complete the table.

[3]

25. Mary carries out an experiment in the laboratory to record the temperature reached by a kettle of water as it heats up.

She presents her results in a graph with readings being started when the kettle is switched on.



The graph tells us (for example) that the temperature of the water will reach 80°C after 70 seconds.

Now answer these questions:

- (a) What was the water temperature when the kettle was switched on?

Answer: °C

- (b) After how many seconds was the temperature 70°C.

Answer: seconds

- (c) By how many °C did the temperature rise between the 40th and the 60th seconds?

Answer: °C

26.

	LEEDS						
72		LINCOLN					
74	140		LIVERPOOL				
43	85	35		MANCHESTER			
63	123	144	114		MIDDLESBROUGH		
94	154	175	144	38		NEWCASTLE	
172	103	240	185	223	254		NORWICH
74	38	109	71	129	160	119	NOTTINGHAM

The chart shows the distance (in miles) between some towns or cities.

Example: the distance between Lincoln and Newcastle is 154 miles.

(a) Write down the distance between Liverpool and Norwich.

Answer: miles

(b) Write down the name of the place which is 129 miles from Middlesbrough.

Answer:

[2]

27. A bag contains 75 discs, all of the same **shape**.

71 of the discs are **red** and 4 of the discs are **white**.

One disc is drawn at random from the bag.

Use the appropriate words from this list:

likely or **unlikely** or **impossible**

to complete **each** of the following sentences.

(a) “It is that the disc drawn is **blue**.”

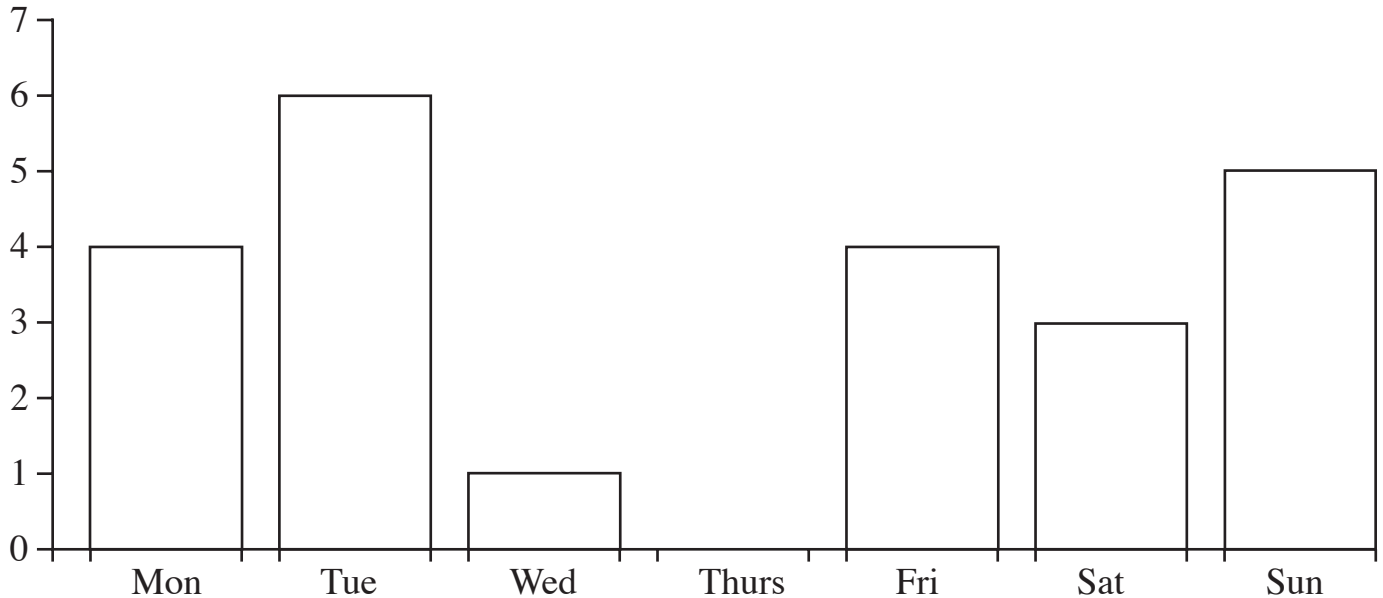
(b) “It is that the disc drawn is **red**.”

(c) “It is that the disc drawn is **white**.”

[3]

28. The graph below shows the number of hours of sunshine recorded in Rhyl during one week.

Number of
hours of sunshine



- (a) On which **days** were there **four (4)** hours of sunshine?

Answer and

- (b) On one day the sky was completely covered by cloud for the whole day. Which day was this?

Answer:

- (c) On what day was there **twice as many** hours of sunshine than there was on Saturday?

Answer:

[3]