

Candidate Name	Centre Number	Candidate Number
		4



## Entry Level

736/01

# MATHEMATICS FINAL EXAMINATION

A.M. TUESDAY, 24 March 2009

1¼ hours

### 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.

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	
<b>TOTAL</b>	

1.

**15      12      6      4      13**

**Only** using numbers from the **above list** write down

(a) **two** numbers which when **subtracted** give an answer of 7,

Answer: ..... and .....

(b) **two** numbers which when **divided** give an answer of 3.

Answer: ..... and .....

[2]

2. Write down in **figures** the number **nine thousand three hundred and seven**.

Answer: .....

[1]

3. Calculate

(a)  $6508 + 499$ ,

.....  
 .....

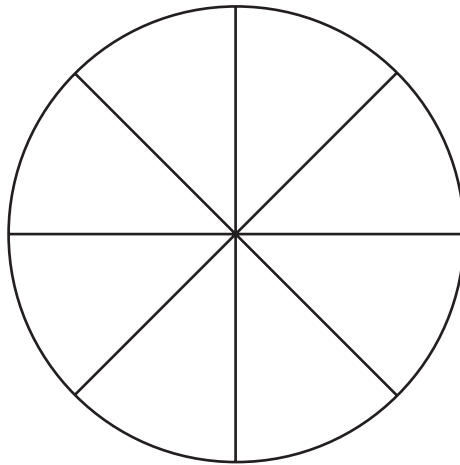
[1]

(b)  $146 \times 6$ .

.....  
 .....

[1]

4. Shade 25% of the figure shown below.



[1]

5. Max decides to put **30 litres** of **unleaded petrol** in his car. He notices that his two local suppliers offer petrol for sale at different prices.

<p><b>ACME GARAGE</b></p> <p>Unleaded Petrol At the Cheapest Price</p> <p>£1.06 per litre</p>
---

<p><b>BOOST PETROL STATION</b></p> <p>Petrol at unbeatable prices</p> <p>Diesel : £1.18 per litre Unleaded : £1.09 per litre</p>
--

- (a) From which supplier should Max buy his petrol?

.....

.....

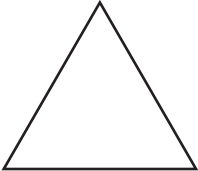
- (b) How much money does Max save?

.....

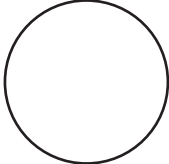
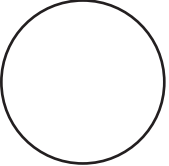
.....

[3]

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

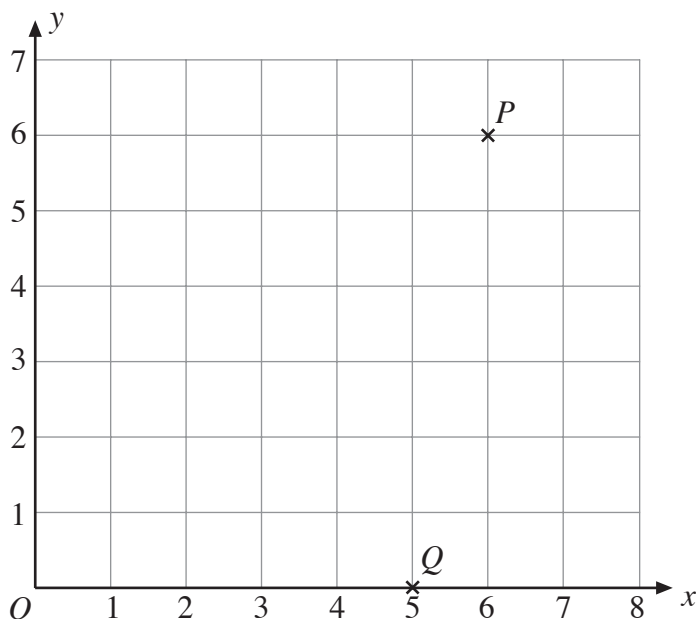
(a)  $6 +$    $= 9$

(b)  $12 -$    $-$    $= 8$

(c)  $16 \div$    $=$  

[3]

7.



The position of point  $P$  is  $(6, 6)$

(a) Write down the position of the point  $Q$ .

Answer: .....  $Q( \quad , \quad )$

(b) Plot the point  $R$  which has position  $(3, 4)$ .

(c) Plot the point  $S$  which has position  $(2, 1.5)$ .

[3]

8. The **number** 2 has the same **position** in these numbers:

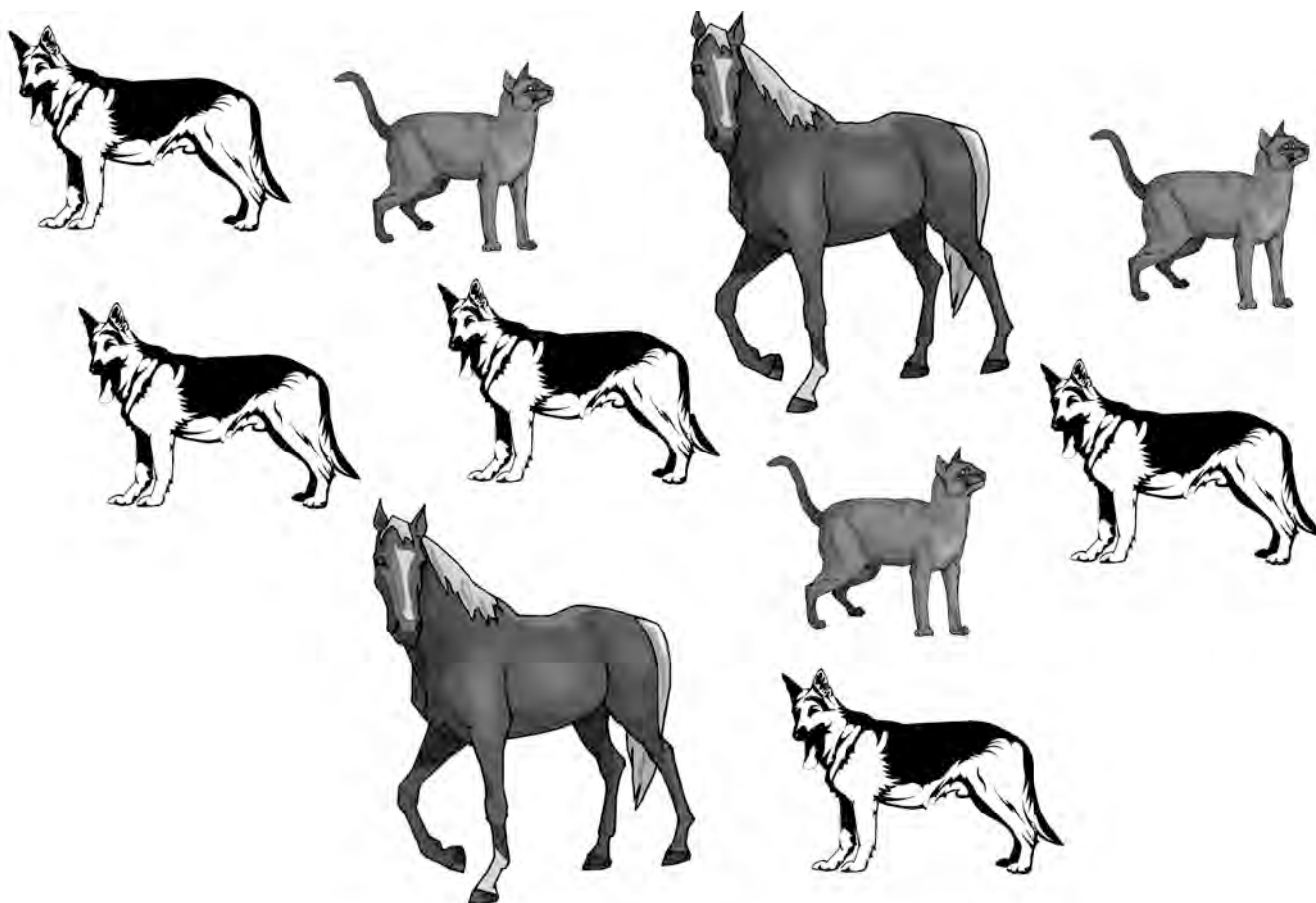
4206      3257      50210

What is the **value** of the 2 written in that position?

Answer: .....

[1]

9. The diagrams show pictures of some animals.



(a) How many **dogs** are shown in these pictures?

Answer: .....

(b) What **fraction** of the animals shown are **cats**?

Answer: .....

[2]

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

(a) 5, 7, 9, 11, .....

(b) 1, 2, 4, 8, .....

(c) 19, 15, 11, 7, 3, .....

[3]

11. On 1<sup>st</sup> May 2009 John is 3 years older than Mary.

On 1<sup>st</sup> May 2005 John was 12 years old.

(a) How old is Mary on 1<sup>st</sup> May 2009?

Answer: .....

(b) How old will John be on 1<sup>st</sup> May 2011?

Answer: .....

[2]

12. The Worldwide Bus Company has a large number of buses available for hire. Each bus can carry a maximum of 40 passengers.

The Benoni High School organises a visit to the National museum.

A total of 374 (pupils and staff) indicate that they wish to take part in the visit.

How many buses are needed?

.....

.....

.....

Answer: .....

[2]

13. Complete the following bill.

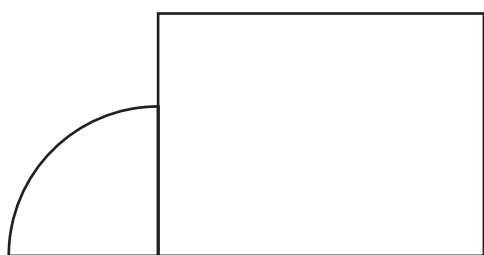
2 Box Files at £3.41 each	£	.
10 pens at 86p each	£	.
TOTAL	£	.

[2]

14. Some of the following digrams have **mirror symmetry**.

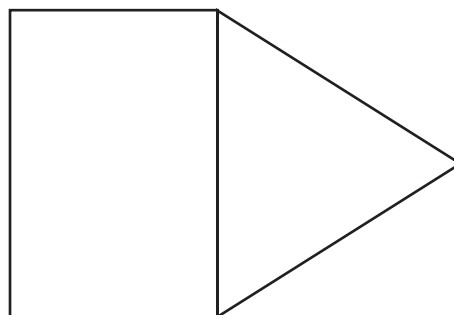
Place a **tick** (✓) under each diagram which has **mirror symmetry** and then **draw its mirror line**.

(a)



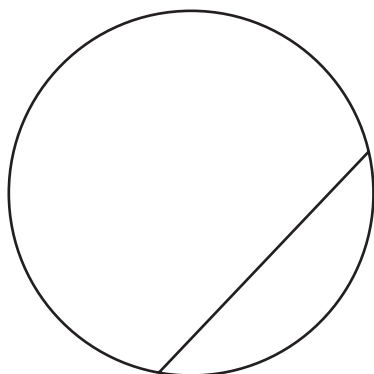
.....

(b)



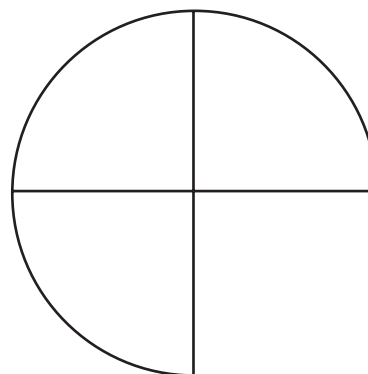
.....

(c)



.....

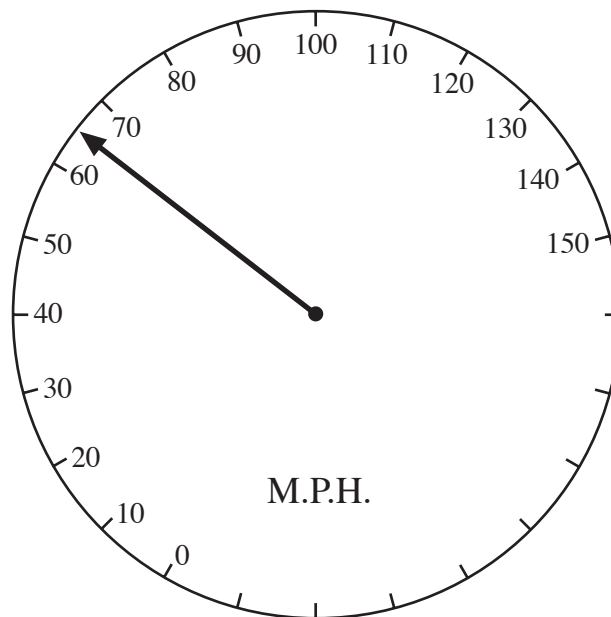
(d)



.....



17. (a) The speedometer on a car shows the following speed.

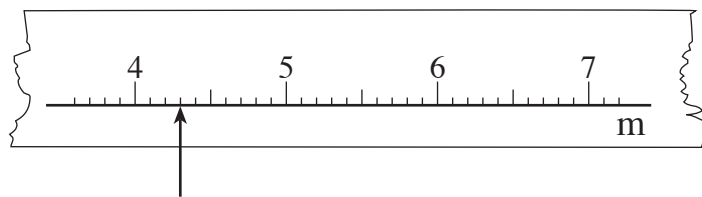


Write down the speed at which the car is being driven.

Answer: ..... m.p.h.

[1]

- (b) The diagram below shows a section of a measuring tape.

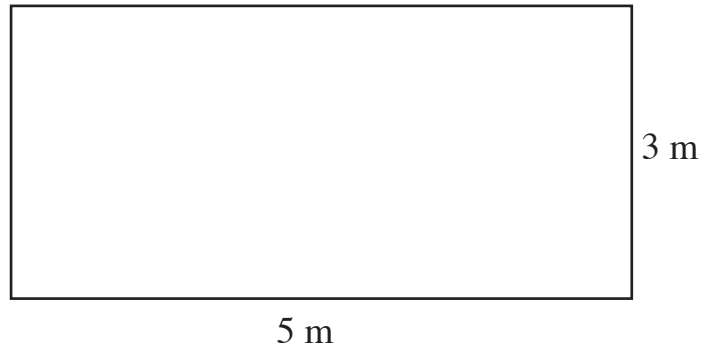


The arrow indicates a length of 4.3 m.

Draw another arrow on the same diagram to indicate a length of 5.75 m.

[1]

18. A rectangle has the measurements shown.

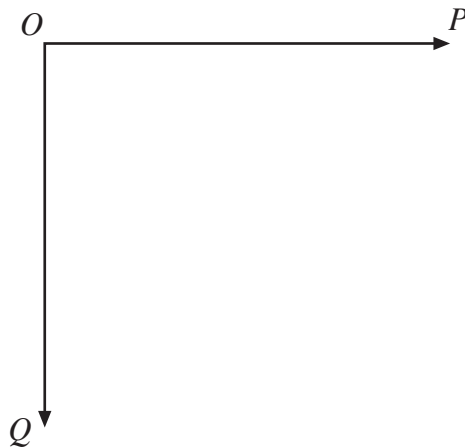


Write down the **perimeter** of the rectangle.

Answer: .....

[1]

- 19.



The pointer is fixed at  $O$ .

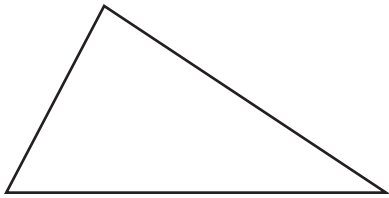
The pointer is moved from position  $OQ$  **clockwise** to position  $OP$ .

Through how many right-angles has the pointer turned?

Answer: .....

[1]

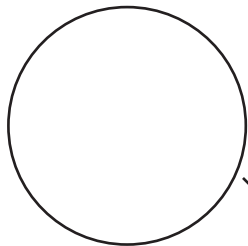
20. Join **each** shape to its name. One has been done for you.



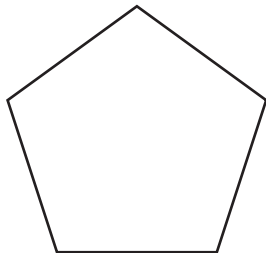
Square



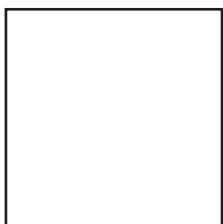
Pentagon



Triangle



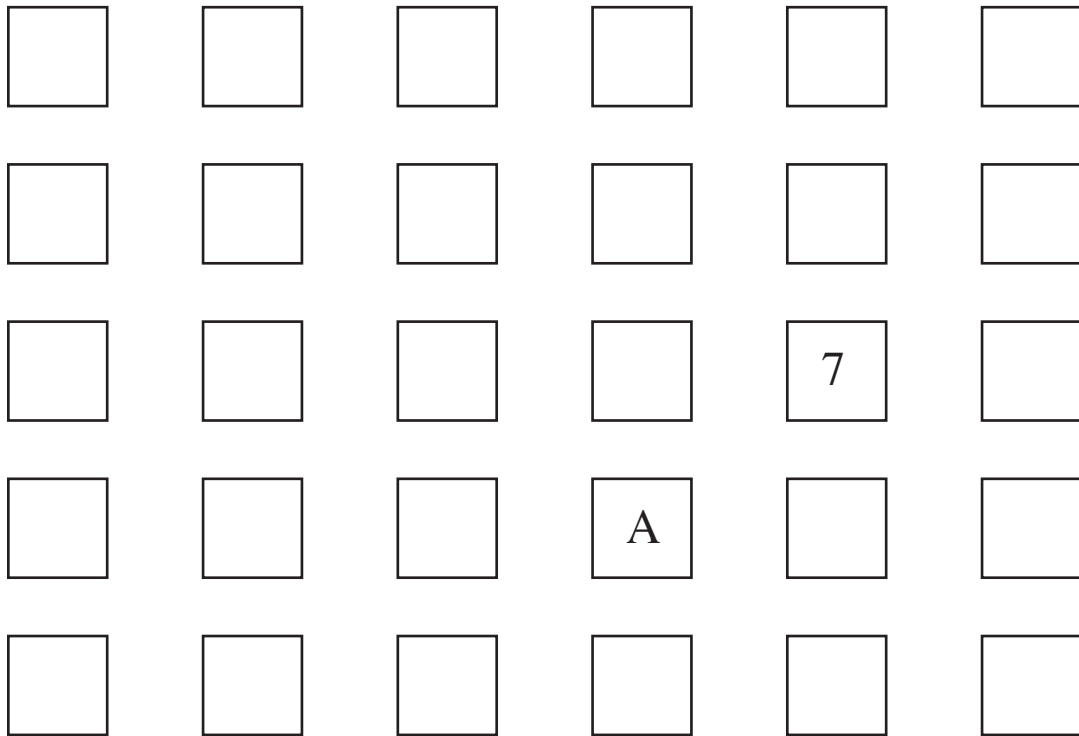
Rectangle



Circle

[3]

21. Look at this diagram:



(a) Put the letter B in the box which is **two boxes to the left** of the letter A.

(b) Put the number 8 in the box which is **two boxes below** the number 7. [2]

22. A bag contains 78 **red** discs and 9 **blue** discs.

One disc is drawn from the bag.

Use the most suitable word from this list:

**Impossible** or **unlikely** or **likely** or **certain**

to complete each of the following sentences.

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

(b) It is ..... that the disc drawn is **green**.

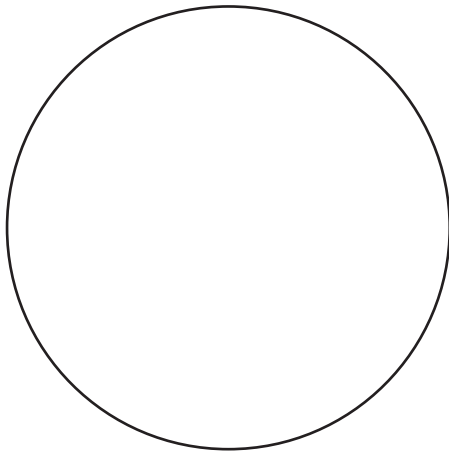
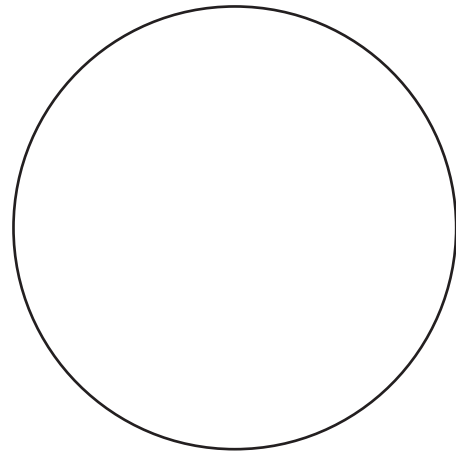
(c) It is ..... that the disc drawn is **red**.

[3]

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

**11****4****7****12****8****15**

Put the numbers in the circles below.

**GROUP 1****GROUP 2**

How did you choose your groups?

.....

.....

.....

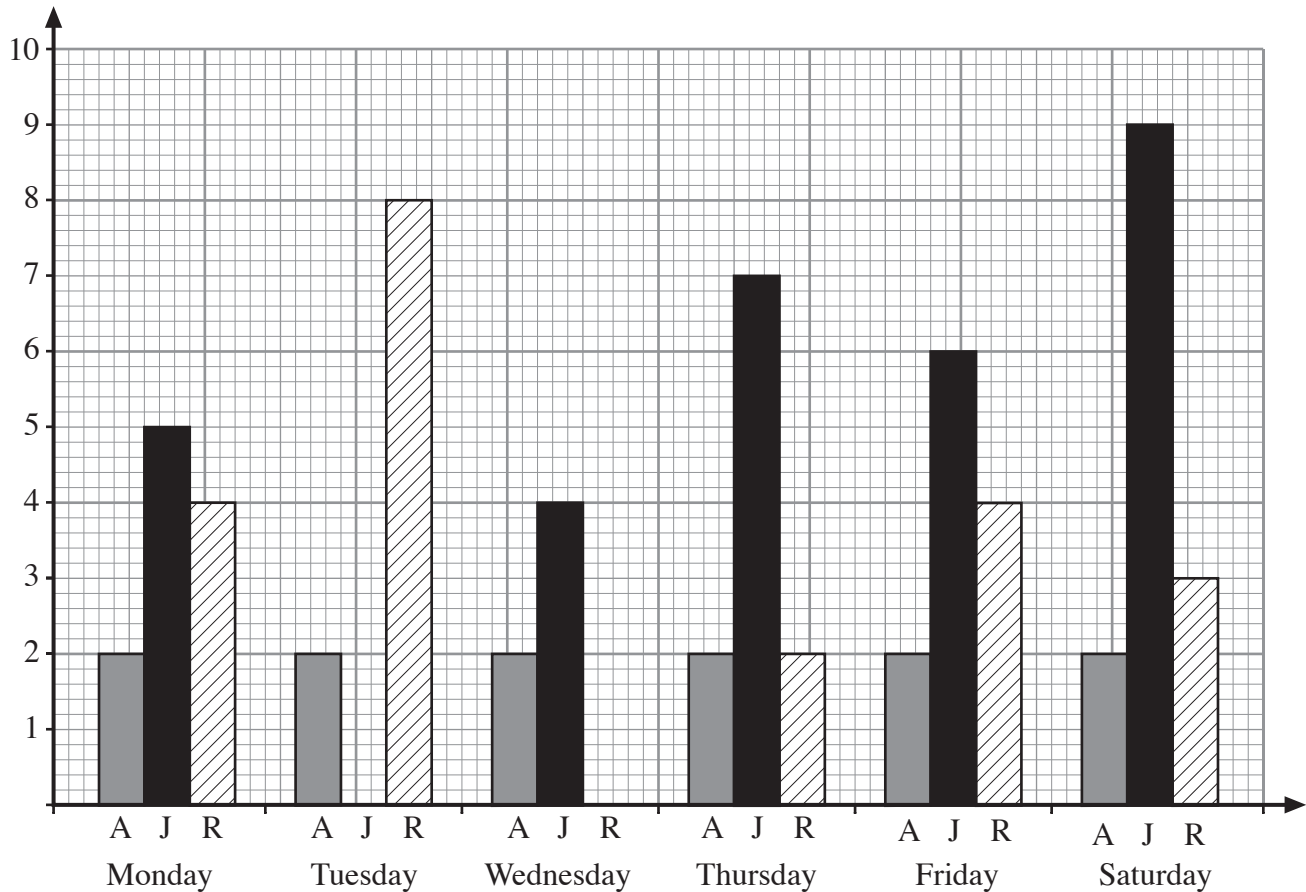
**[2]**

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24. Amanda (A), Jean (J) and Ros (R) work part-time in a small grocery store.

The block graph below shows the number of hours (if any) that each woman works per day in a given week (note that the store is closed on Sunday).

NUMBER OF  
HOURS WORKED



- (a) Write down the name of the person who worked for **6 hours** on **Friday**.

Answer: .....

- (b) Write down the name of the person who worked for **2 hours each day** from Monday to Saturday inclusive.

Answer: .....

- (c) For how many hours in total does Jean work in the week?


Answer: .....

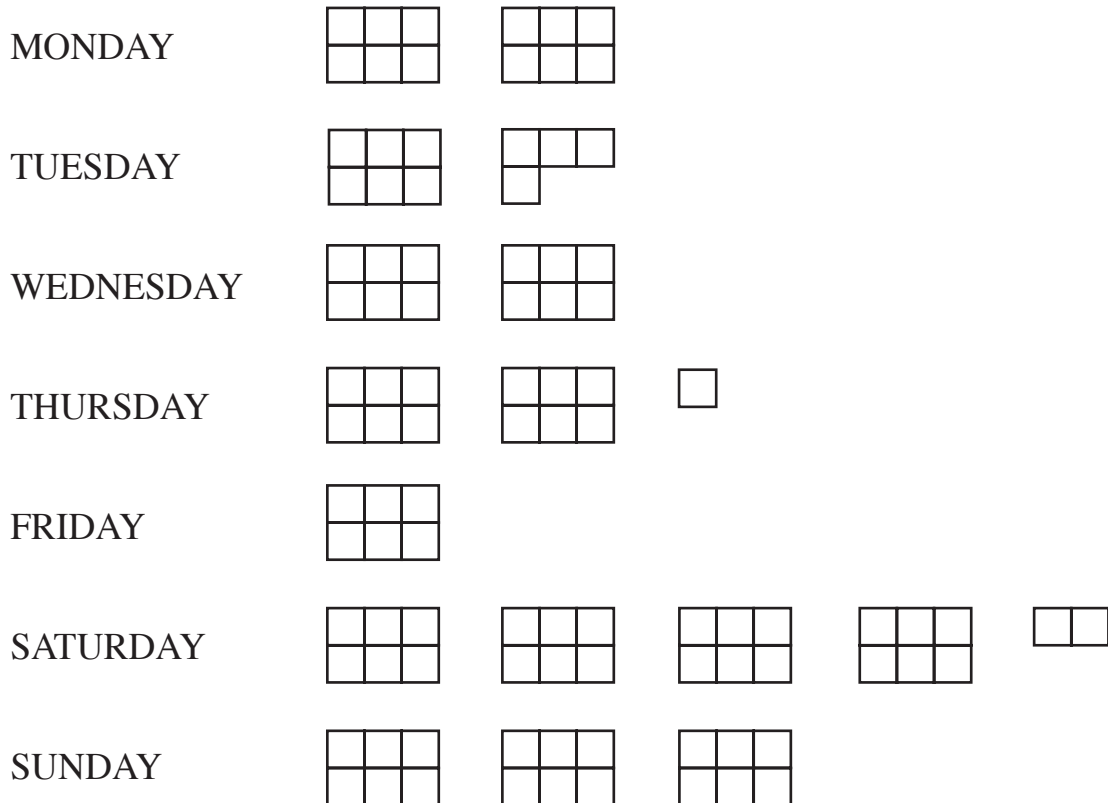
- (d) For how many **more** hours did Ros work on Tuesday than she worked on Friday?

Answer: .....

[4]

25. The following pictogram shows the number of cars entering a Holiday Park every day for a week.

The symbol  represents 30 cars



(a) How many cars entered the Holiday Park

(i) on Tuesday,

Answer: .....

(ii) on Thursday?

Answer: .....

(b) On which day did most cars enter the Holiday Park?

Answer: .....

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

	CARDIFF						
127	FISHGUARD						
198	167	LIVERPOOL					
152	263	203	LONDON				
109	205	169	57	OXFORD			
110	132	68	156	109	SHREWSBURY		
145	167	57	156	115	35	STOKE	
243	259	100	205	175	140	105	YORK

**Example:** The distance between Fishguard and Stoke is 167 miles.

(a) Write down the distance between Cardiff and Oxford.

Answer: .....

(b) Write down the name of the place which is 68 miles from Shrewsbury.

Answer: .....

(c) Write down **two (2)** places which are the same distance from London.

Answer: ..... are .....

[3]

27. This is part of Gwyn's school timetable:

8:50 a.m.	Registration
9:00 a.m.	Mathematics
9:40 a.m.	Technology
10:20 a.m.	Assembly
10:35 a.m.	Break
10:55 a.m.	English
11:35 a.m.	Science
12:15 p.m.	Lunch Break

Use the above timetable to answer the following questions.

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

Answer: .....

(b) Which activity lasts for 10 minutes?

Answer: .....

(c) The Lunch Break lasts for 55 minutes. Using the **24-hour clock notation** write down the time of the **start** of afternoon school.

Answer: .....

[3]