FULL MODEL ANSWERS

Q1. NON-CALCULATOR

The table shows information about the numbers of fruit trees in an orchard.

Apple tree	Pear tree	Plum tree
45	20	25

4 triangles

(a) The pictogram shows this information.

20 ÷ 4

Complete the key for the pictogram.

Apple tree	△ △ △ △ △ △ △ △ △	Key: △ represents .....5. trees
Pear tree	△ △ △ △	
Plum tree	△ △ △ △ △	

(Total for question = 1 mark)

Q2. NON-CALCULATOR

There are only apple trees, cherry trees, pear trees and plum trees in an orchard.

The pictogram shows information about the numbers of apple trees, cherry trees and pear trees in the orchard.

Apple	4 4 4	12
Cherry	4 1	5
Pear	4 2	6
Plum	☐ ☐	30−12−5−6 = 7
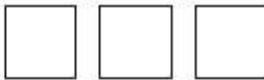
Key:
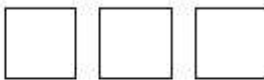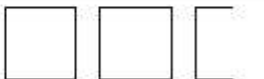☐ represents 4 trees

There is a total of 30 trees in the orchard. Complete the pictogram.

(Total for question = 3 marks)

Q3. NON-CALCULATOR

The pictogram shows information about the number of pictures sold in an art shop in each of January, February and March.

24	January	☐ ☐ ☐
28	February	☐ ☐ ☐ ☐
20	March	☐ ☐ ☐
12	April	☐ ☐

Key:

☐ represents 8 pictures

(a) Write down the number of pictures sold in January.

3×8

.... 24 ....

(1)

12 pictures were sold in April.

(b) Show this information on the pictogram.

(1)

(c) What was the total number of pictures sold in these four months?

24
28
20
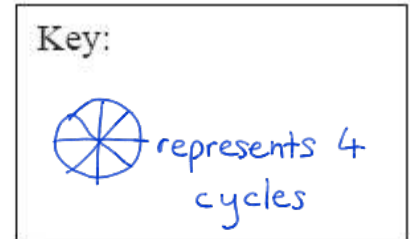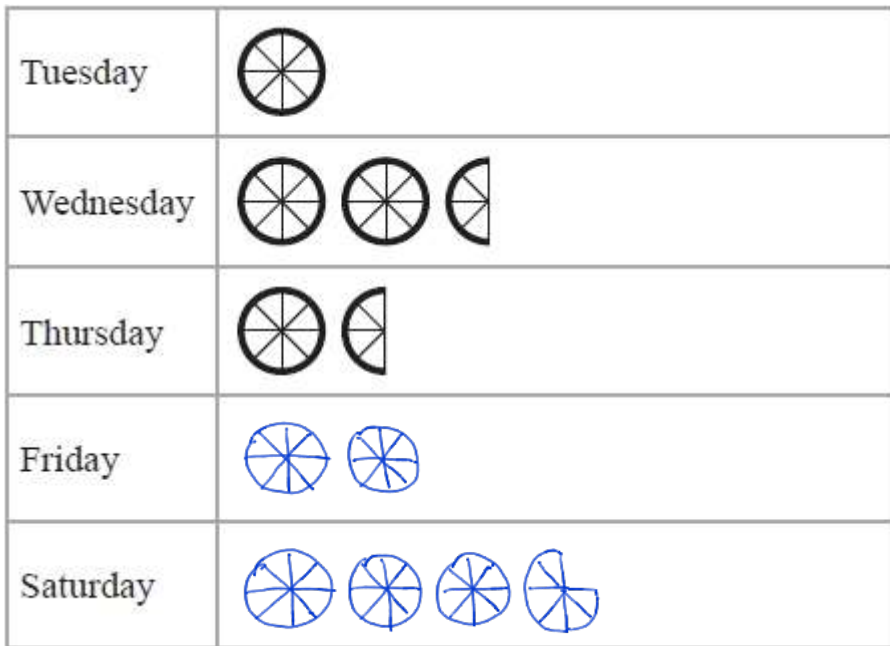+ 12

.... 84 ....

(2)

(Total for question = 4 marks)

Q4. CALCULATOR ALLOWED

The incomplete pictogram shows information about the number of cycles sold in a shop on Tuesday, on Wednesday and on Thursday.

Tuesday	⊕
Wednesday	⊕ ⊕ ◖
Thursday	⊕ ◖
Friday	✳ ✳
Saturday	✳ ✳ ✳ ◖

Key:

⊕ represents 4 cycles

A total of 20 cycles were sold on Tuesday, Wednesday and Thursday. *Total of 5 wheels*

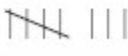8 cycles were sold on Friday. 15 cycles were sold on Saturday. *20 ÷ 5 = 4*

Use this information to complete the pictogram.

(Total for question = 3 marks)

Q5. CALCULATOR ALLOWED

David sells CDs in a shop.

The tally chart shows information about the number of CDs David sold on Monday, on Tuesday and on Wednesday.

	Tally	Frequency
Monday	卌 卌 |||	12
Tuesday	卌 卌 卌 |||	18
Wednesday	卌 |||	8

(a) Write down **one** thing that is wrong with the tally chart.

The tally for Monday shows 13, but the frequency shows 12.

(1)

David drew this pictogram to show the information for Tuesday and Wednesday.

| Tuesday | ◑ ◑ ◑ ◑ ◑ |
| Wednesday | ◑ ◑ ◐ |

Key: ◑ represents 3 CDs

(b) Write down **one** thing that is wrong with this pictogram.

It shows 3·5 symbols for Wednesday, meaning 10·5
CDs were sold, but you cannot sell half a CD.

(1)

(Total for question = 2 marks)

Q6. CALCULATOR ALLOWED

The pictogram shows information about the number of vinyl records sold in a shop on Monday and on Tuesday.

Monday	⑧ ⑧ ⑧	24
Tuesday	⑧ ⑧ ②	18
Wednesday	◖	
Thursday	◯ ◯ ◯ ◯	

Key:
◯
represents
8 vinyl records

(a) Write down the number of vinyl records sold

(i) on Monday,

3×8 24

....

(1)

(ii) on Tuesday.

$(2 \times 8) + \left(\frac{1}{4} \times 8\right)$ 18

....

(1)

On Wednesday and Thursday a total of 36 vinyl records were sold.
The number of records sold on Thursday was 8 times the number of records sold on Wednesday.

(b) Use this information to complete the pictogram.

Wed 4

Thurs 4 4 4 4 4 4 4 4   } 36
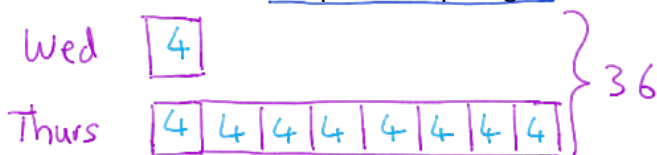
$36 \div 9 = 4$

(3)

(Total for question = 5 marks)