

Mock Grade 4

Maths

Booklet 5

Paper 2H
Calculator

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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** Make t the subject of the formula $4w = 7t + 51$

(Total for Question 1 is 2 marks)

- 2 Three companies sell the same type of furniture.

The price of the furniture from Pooles of London is £1286

The price of the furniture from Jardins of Paris is €1514

The price of the furniture from Outways of New York is \$1780

The exchange rates are

$$£1 = €1.18$$

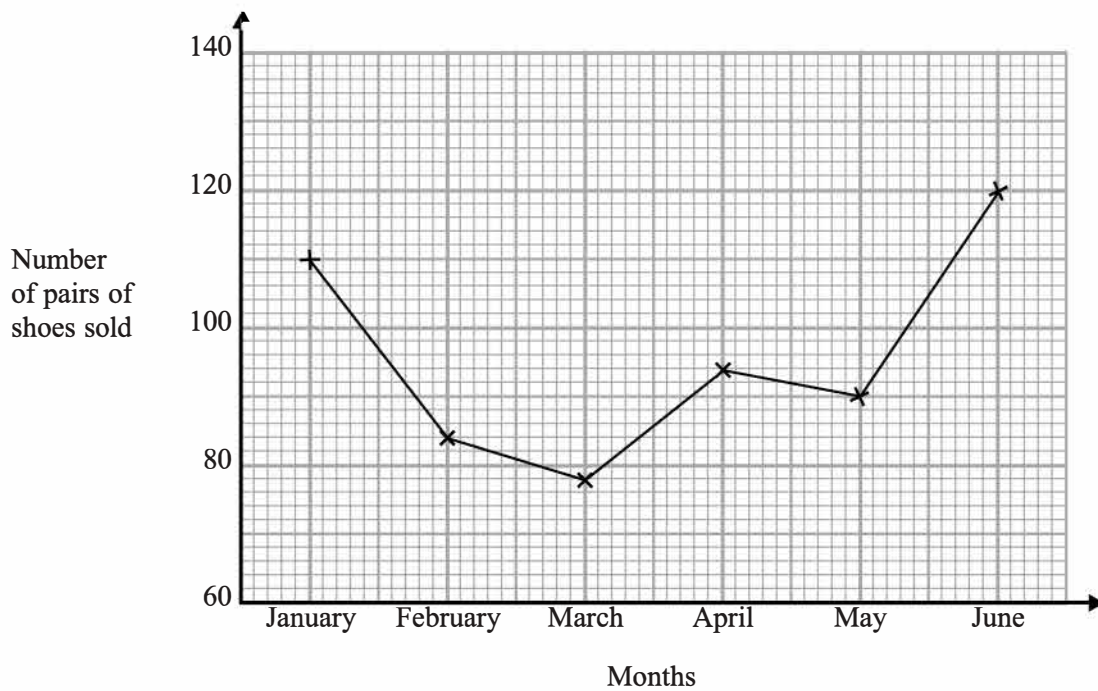
$$£1 = \$1.37$$

Which company sells this furniture at the lowest price?

You must show how you get your answer.

(Total for Question 2 is 3 marks)

- 3 The time-series graph gives some information about the number of pairs of shoes sold in a shoe shop in the first six months of 2018



The sales target for the first six months of 2018 was to sell a mean of 90 pairs of shoes per month.

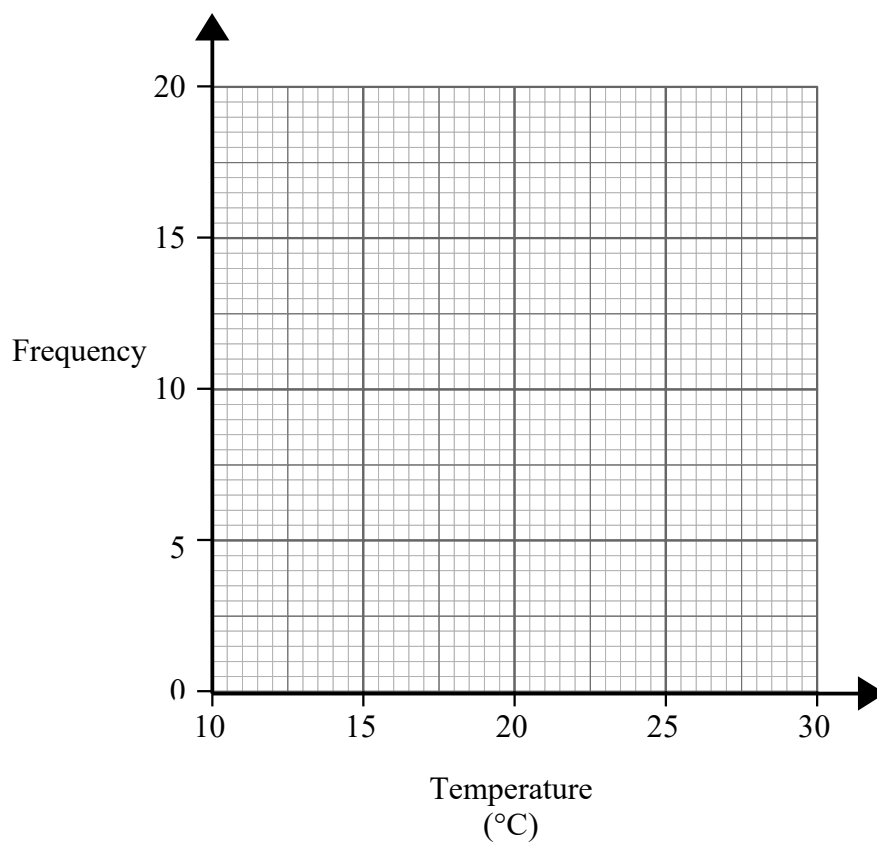
Did the shoe shop meet this sales target?
You must show how you get your answer.

(Total for Question 3 is 3 marks)

- 5 The frequency table shows the temperature, in degrees, of 30 days.

Temperature ($^{\circ}\text{C}$)	Frequency
$10 < t \leq 14$	1
$14 < t \leq 18$	4
$18 < t \leq 22$	16
$22 < t \leq 26$	7
$26 < t \leq 30$	2

Draw a frequency polygon to show this information.



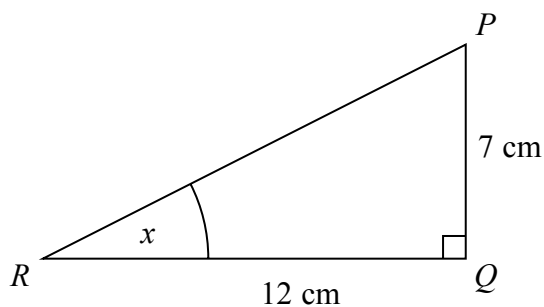
(Total for Question 5 is 2 marks)

- 5 Frank, Mary and Seth shared some sweets in the ratio $8 : 4 : 15$
Seth got 44 more sweets than Mary.

Work out the total number of sweets they shared.

(Total for Question 5 is 3 marks)

- 6 PQR is a right-angled triangle.



Work out the size of the angle marked x .
Give your answer correct to 1 decimal place.

(Total for Question 6 is 2 marks)

7 Here are the first four terms of an arithmetic sequence.

11 8 5 2

(a) Write an expression, in terms of n , for the n th term of this sequence.

.....
(2)

The n th term of a different arithmetic sequence is $4n + 7$

(b) Is 107 a term of this sequence?
Show how you get your answer.

(2)

(Total for Question 7 is 4 marks)

8 Axel and Lethna are driving along a motorway.

They see a road sign.

The road sign shows the distance to Junction 8

It also shows the average time drivers take to get to Junction 8

To Junction 8 50 miles 44 minutes

The speed limit on the motorway is 70 mph.

Lethna says

“We will have to drive faster than the speed limit to drive 50 miles in 44 minutes.”

Is Lethna right?

You must show how you get your answer.

(Total for Question 8 is 3 marks)