

Past-paper walk-through

Cumulative frequency diagrams ■ E9.6

eXercise

Questions in this set

- 0580/41 N25 Q25 ■ 7 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

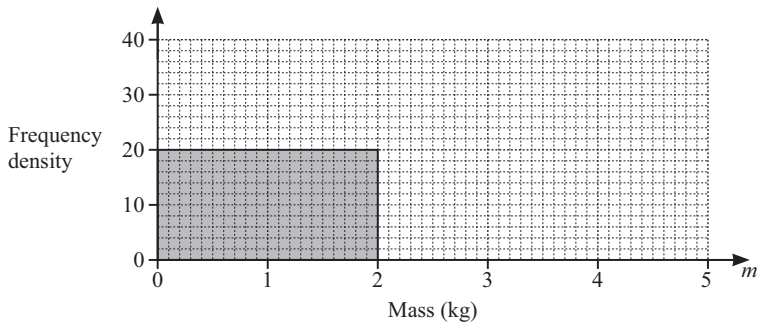
Question 25

0580/41 N25 ■ Q25 ■ 7 marks

25 Kai sorts parcels into two types, light and heavy.

Question 25

The histogram shows some information about the number of parcels Kai sorts in one day.



- (a) Find the number of light parcels.

Question 25

Question 25

(b) There are 102 heavy parcels.

Complete the histogram.

[2]

Solution 25

(a)**Mark scheme**

- 40
- 1

Solution 25

(b) Mark scheme

- Correct column, from 2 to 5 and
- height 34
- 2 M1 for 102
- 5
- 2
- —
- 26
- 2

Solution 25

- 2
- 5
- 0
- —
- =
- x
- x
- or better or
- 2
- 2

Solution 25

- 18
- 28
- 0
- +
- +
- =
- y
- y
- or better M2
- M1 for

Solution 25

- 2
- 2
- 3
- 7
- 2
- 7
- x
- x
- x
- —

Solution 25

- —
- =
- —
- oe or for
- 2
- 7
- 7
- 2
- 3
- 7

Solution 25

■ 2

■ 2

■ +

■ +

■ (

■)

■ (

■)

■ =

■ -

Solution 25

■ —

■ (

■)

■ (

■)

■ (

■)

■ (

■)

■ y

Solution 25

- y
- y
- $x = 0, y = -7$
- $x = 2.5, y = -2$ B2
- B1 for $x = 0, y = -7$, or for $x = 0$ and $x = 2.5$ or
- for $x = 2.5, y = -2$ or for $y = -2$ and $y = -7$
- If M1B0 or M2B0 scored then SC1 for correct
- substitution seen of both of their x -values
- or their y -values into
- 2

Solution 25

- 2
- 3
- 7
- y
- x
- x
- $=$
- $-$
- $-$
- or

Solution 25

- 2
- 7
- =
- —
- y
- x
- 27
- 16.8 or 16.80 to 16.81
- 4 M3 for
- 2

Solution 25

- 2
- 5
- tan
- 15
- 7
- =
- +
- oe or
- 2
- 2

Solution 25

- 2
- 5
- sin
- 15
- 7
- 5
- =
- +
- +
- oe or

Solution 25

- 2
- 2
- 2
- 2
- 2
- 15
- 7
- $\cos$
- 15
- 7

Solution 25

- 5
- +
- =
- +
- +
- oe
- or M2 for
- 2
- 2
- 15

Solution 25

- 7

- +

- or

- 2

- 2

- 2

- 15

- 7

- 5

- +

Solution 25

- +
- or M1 for indication of correct angle