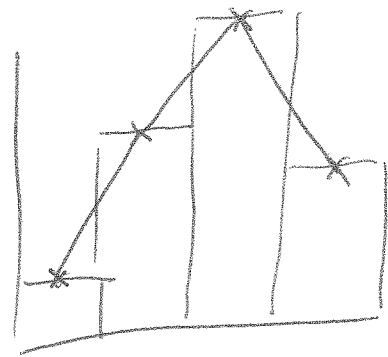


10 The table below shows the weight of suitcases checked in for a flight.

Weight (kg)	Frequency
$0 < w \leq 5$	2
$5 < w \leq 10$	11
$10 < w \leq 15$	25
$15 < w \leq 20$	18
$20 < w \leq 25$	13
$25 < w \leq 30$	11

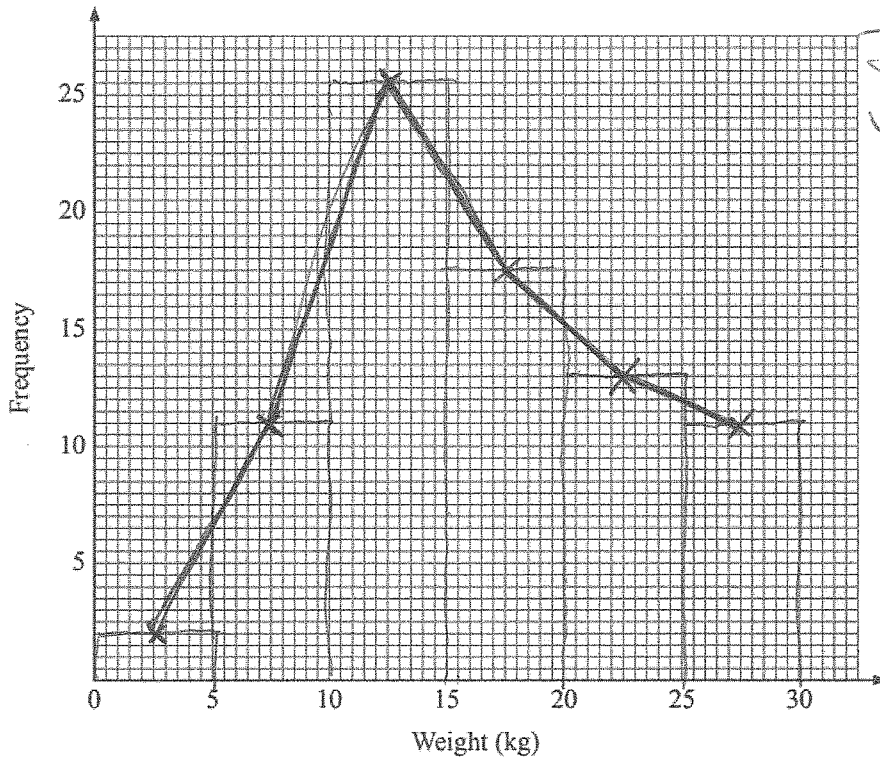
↓ 2  
↓ 13  
↓ 38  
↓ 56



Draw a bar chart then x in the middle at the top.

(a) Draw a frequency polygon for the data.

80



Join up with straight lines.

MA = 18 days to go!

(b) Which class interval contains the median weight?

Answer 15 < w <= 20 [1]

1/2 way value. Where is the 40th value?

(c) All luggage is charged at £20 per suitcase. A suitcase weighing over 20kg has an additional charge of £7.50

How much money is charged for all the luggage on this flight?

$$80 \times 20 = 1600$$

$$1600 + 105$$

14 charged £7.50 extra

$$\begin{array}{r} 14 \\ \times 7.50 \\ \hline \pounds 105.00 \end{array}$$

Answer £ 1705 [2]

Nicola is organising a concert to raise money for charity.

Entry to the concert is £4.00

The number of people attending concert is 800 to the nearest hundred.

What is the greatest possible amount of money she raised for charity?

800 to nearest hundred

$\pm 50$   $\pm \frac{1}{2}$  unit.

$$750 \leq p < 850$$

Greatest amount of  
people is 849

$$\begin{array}{r} \underline{\pounds 3396} \\ (3) \end{array}$$

$$849 \times 4.00 = 3396$$

When something is measured  
the error is always  $\pm \frac{1}{2}$  unit

so 7cm to nearest cm is  $6.5 \leq d < 7.5$

15km to nearest km is  $14.5 \leq d < 15.5$

100m to nearest 10m is  $95m \leq < 105$   
 $\pm 5m$

4200 to nearest 100 is  $4150 \leq < 4250$   
 $\pm 50$

7.2 to 1 dec. pl is  $7.15 \leq < 7.25$