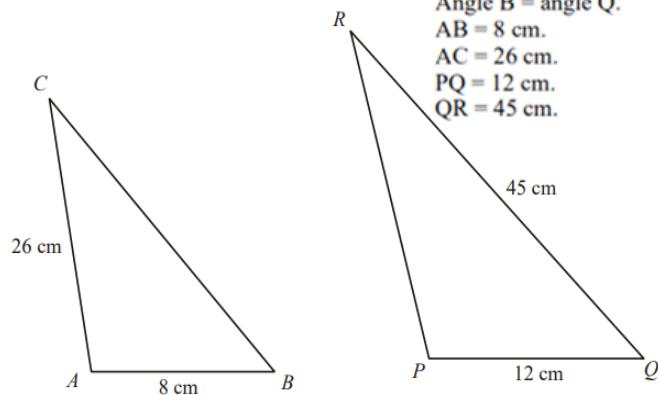


WE DO

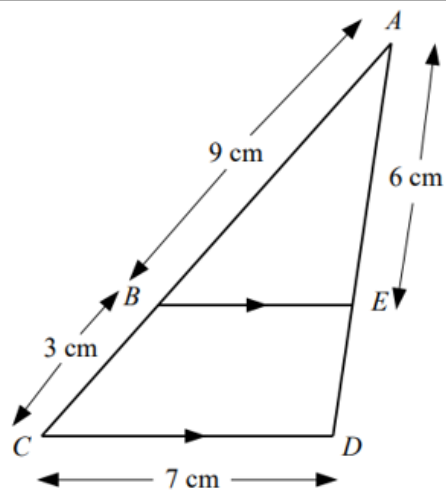
The two triangles ABC and PQR are mathematically similar.  
Angle A = angle P.  
Angle B = angle Q.  
AB = 8 cm.  
AC = 26 cm.  
PQ = 12 cm.  
QR = 45 cm.



(a) Calculate the length of  $PR$ .

(b) Calculate the length of  $BC$ .

YOU DO



$BE$  is parallel to  $CD$ .  
 $AB = 9$  cm,  $BC = 3$  cm,  $CD = 7$  cm,  $AE = 6$  cm.

(a) Calculate the length of  $ED$ .

(b) Calculate the length of  $BE$ .

## WE DO

Leigh-Anne invests £2500 for 4 years in a savings account.  
She gets 3% per annum compound interest.

How much money does Leigh-Anne have at the end of 4 years.

## YOU DO

Annie invests £9500 for 5 years in a savings account.  
She gets 1.8% per annum compound interest.

How much money does Annie have at the end of 5 years.

WE DO

A number  $y$  is rounded to 1 decimal place.

The result is 19.3

Write down the error interval for  $y$ .

YOU DO

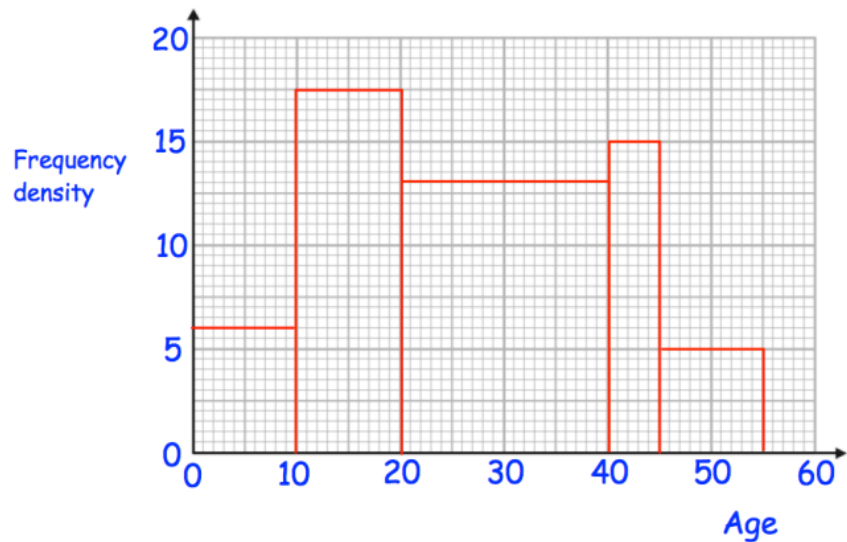
A number  $y$  is rounded to 2 decimal places.

The result is 1.26

Write down the error interval for  $y$ .

WE DO

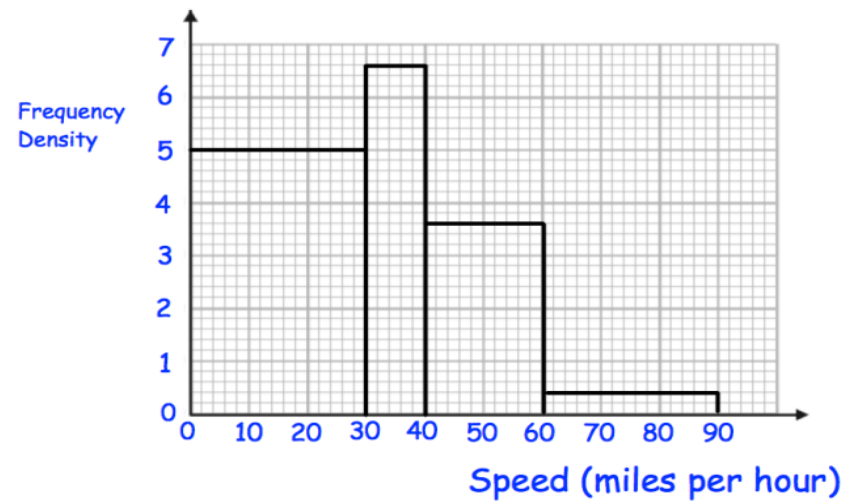
11. The histogram shows the ages of visitors to a library on one morning.



What percentage of visitors were over 40 years old?

YOU DO

10. The histogram shows information about the speeds, in miles per hour, that cars travelled through a village. The speed limit is 60mph.



Work out the percentage of cars that were under the speed limit of 60mph.

WE DO

Write  $64 \times 4^5$  as a power of 4

YOU DO

$$8^{\frac{1}{2}} \times 2^x = 2^{\frac{23}{10}}$$

Give the value of x as a fraction in its simplest form.

WE DO

Using algebra, prove that  $0.\dot{5}\dot{4} \times 0.\dot{5}$  is equal in value to  $\frac{10}{33}$

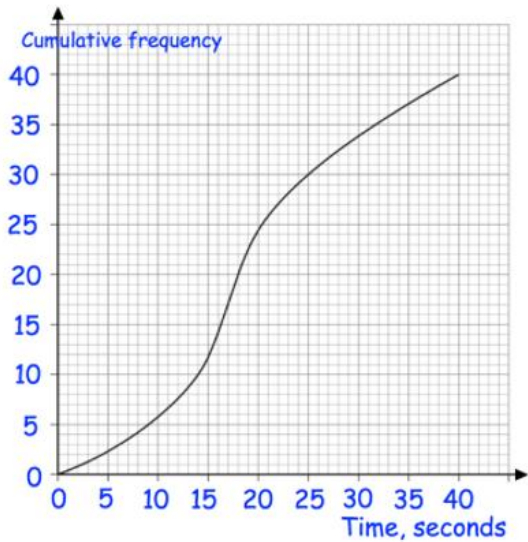
YOU DO

Work out  $1.5\dot{4} \times 0.\dot{2}$

Give your answer as a fraction in its simplest form.

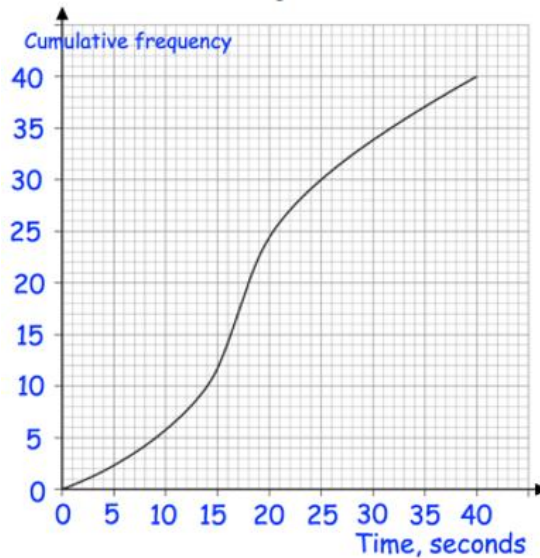
WE DO

How many people took less than 30 seconds?

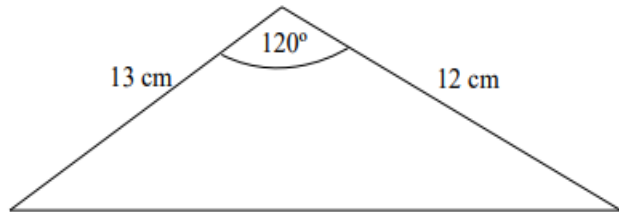


YOU DO

How many people took longer than 25 seconds?

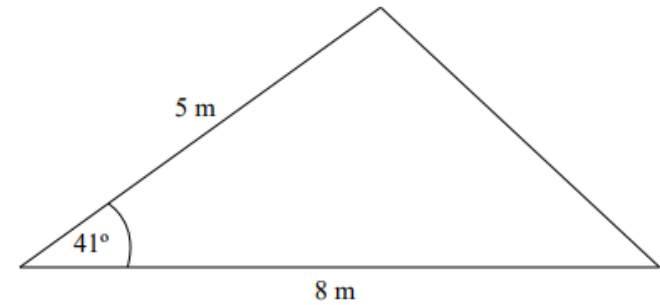


WE DO



Work out the area of the triangle.  
Give your answer to 1 decimal place.

YOU DO

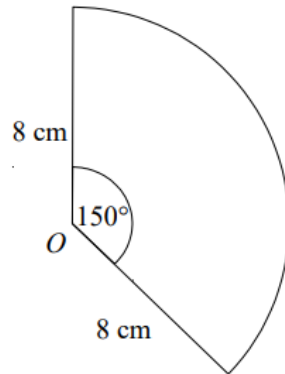


Work out the area of the triangle.  
Give your answer to 3 significant figures.



**WE DO**

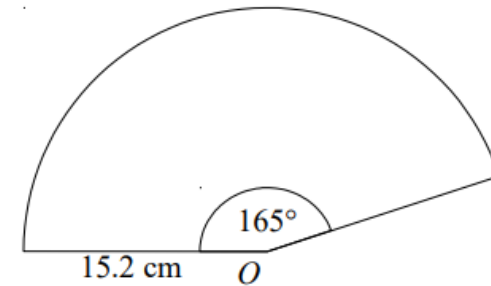
The diagram shows a sector, centre  $O$ .  
The radius of the circle is 8 cm.  
The angle of the sector is  $150^\circ$ .



Calculate the area of the sector.  
Give your answer correct to 3 significant figures.

**YOU DO**

The diagram shows a sector, centre  $O$ .  
The radius of the circle is 15.2 cm.  
The angle of the sector is  $165^\circ$ .



Calculate the area of the sector.  
Give your answer correct to 3 significant figures.