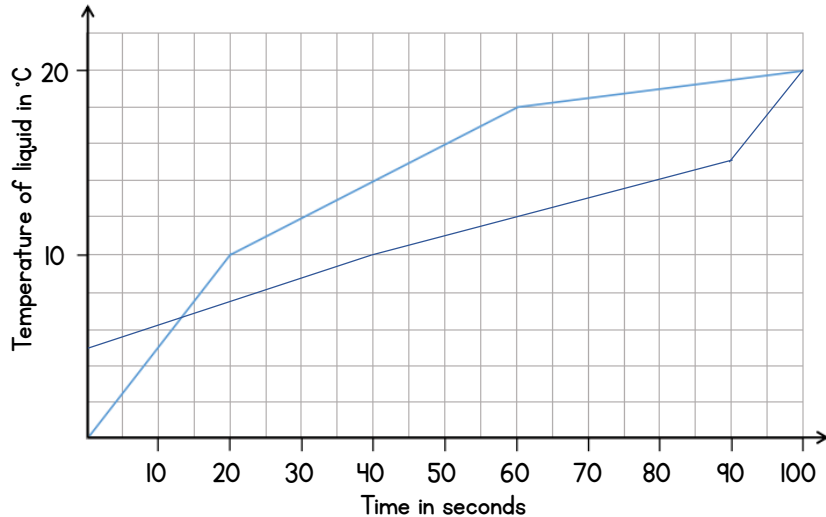


Answers

1 The graph shows the temperature of a liquid as it is heated.



How long does it take the liquid to reach 10°C ?

20 seconds

1 mark

What is the temperature of the liquid after it is heated for 50 seconds?

16 $^{\circ}\text{C}$

1 mark

How many degrees has the temperature increased by between 40 seconds and 80 seconds?

5 $^{\circ}\text{C}$

1 mark

Another liquid is heated for 100 seconds.

- The temperature of the liquid at the start was 5°C
- After 40 seconds the temperature is 10°C
- It takes the liquid 50 seconds to increase by another 5°C
- After 100 seconds the temperature is 20°C

Draw a line to show this information on the graph.

3 marks

2 The table shows the distance (in km) between places in the UK.

	Bath	Dover	Ely	Leeds	Perth
Bath	-	307	260	350	690
Dover	307	-	220	270	832
Ely	260	220	-	240	640
Leeds	350	270	240	-	430
Perth	690	832	640	430	-

What is the distance between Ely and Leeds?

240 km

1 mark

Which place in the table is 690 km from Bath?

Perth

1 mark

On Monday Mike drives from Dover to Leeds.

On Tuesday he drives from Leeds to Perth.

How many kilometres does he drive altogether?

Award 1 mark for showing the proper distances (270 and 430) and using addition. 700 km

2 marks

