

Total Marks
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Physics  
Paper 1  
Foundation Tier

Wednesday 20 May 2020 – Afternoon

Time: 1 hour 45 minutes plus your additional time allowance

DIAGRAM BOOKLET

<p><b>YOU MUST RETURN THE DIAGRAM BOOKLET WITH THE QUESTION PAPER</b></p>
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In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

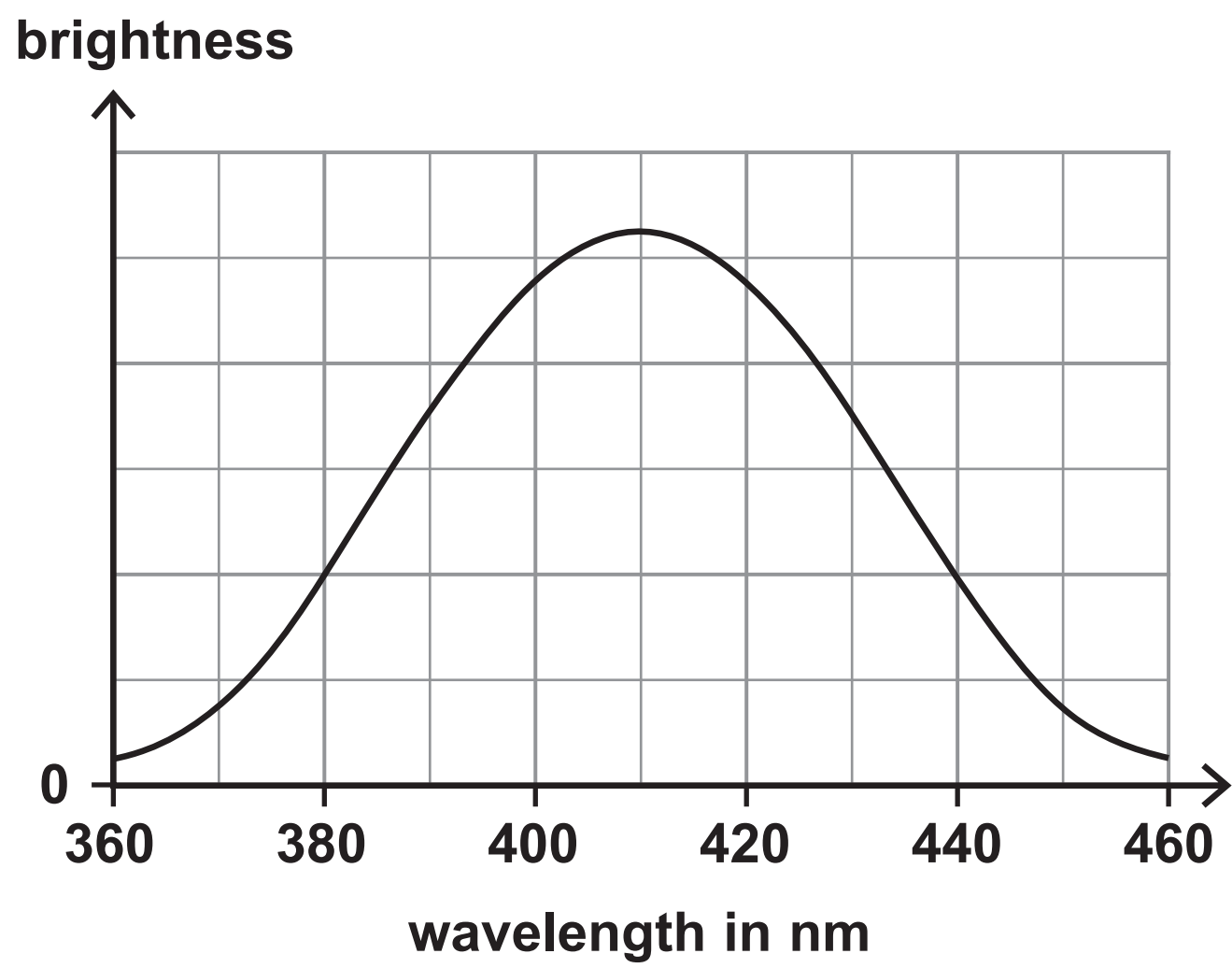
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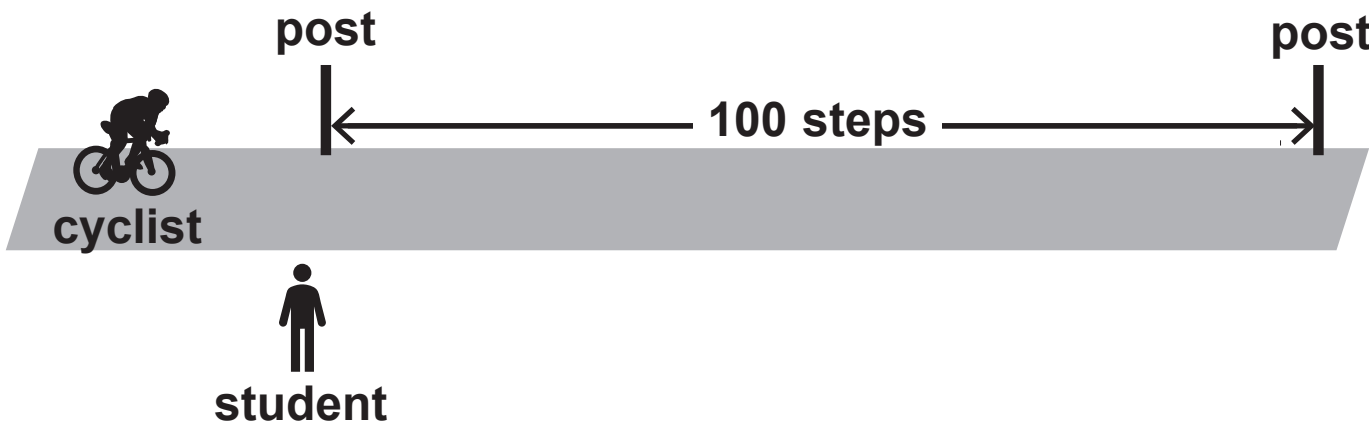
## Question 1

Figure 1



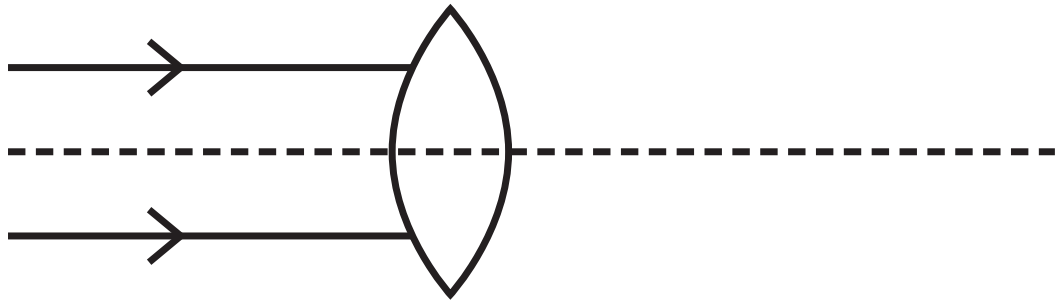
Question 2

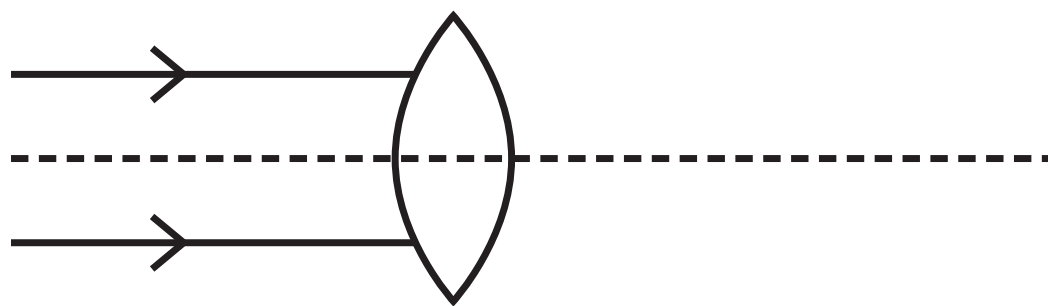
Figure 2

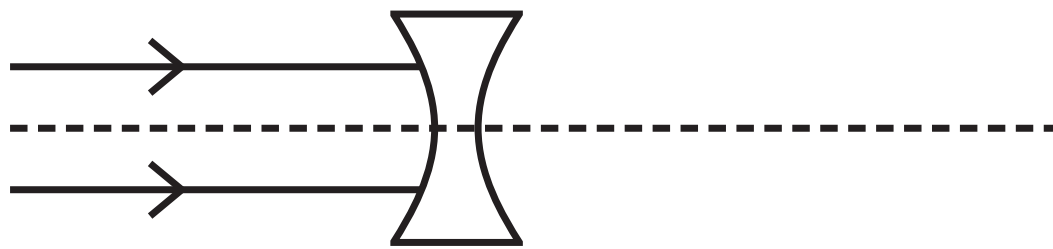


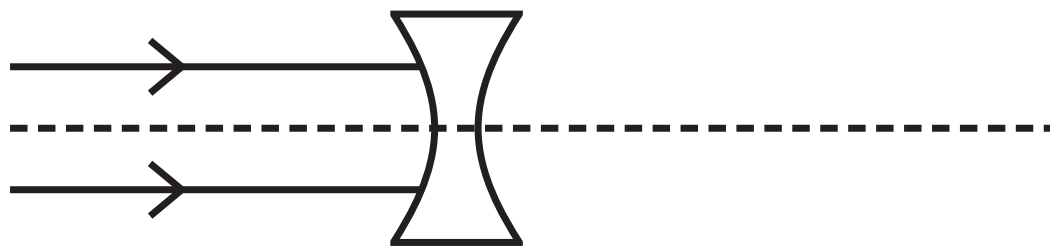
## Question 4

Figure 4



**Question 4 (Spare copy)****Figure 4**

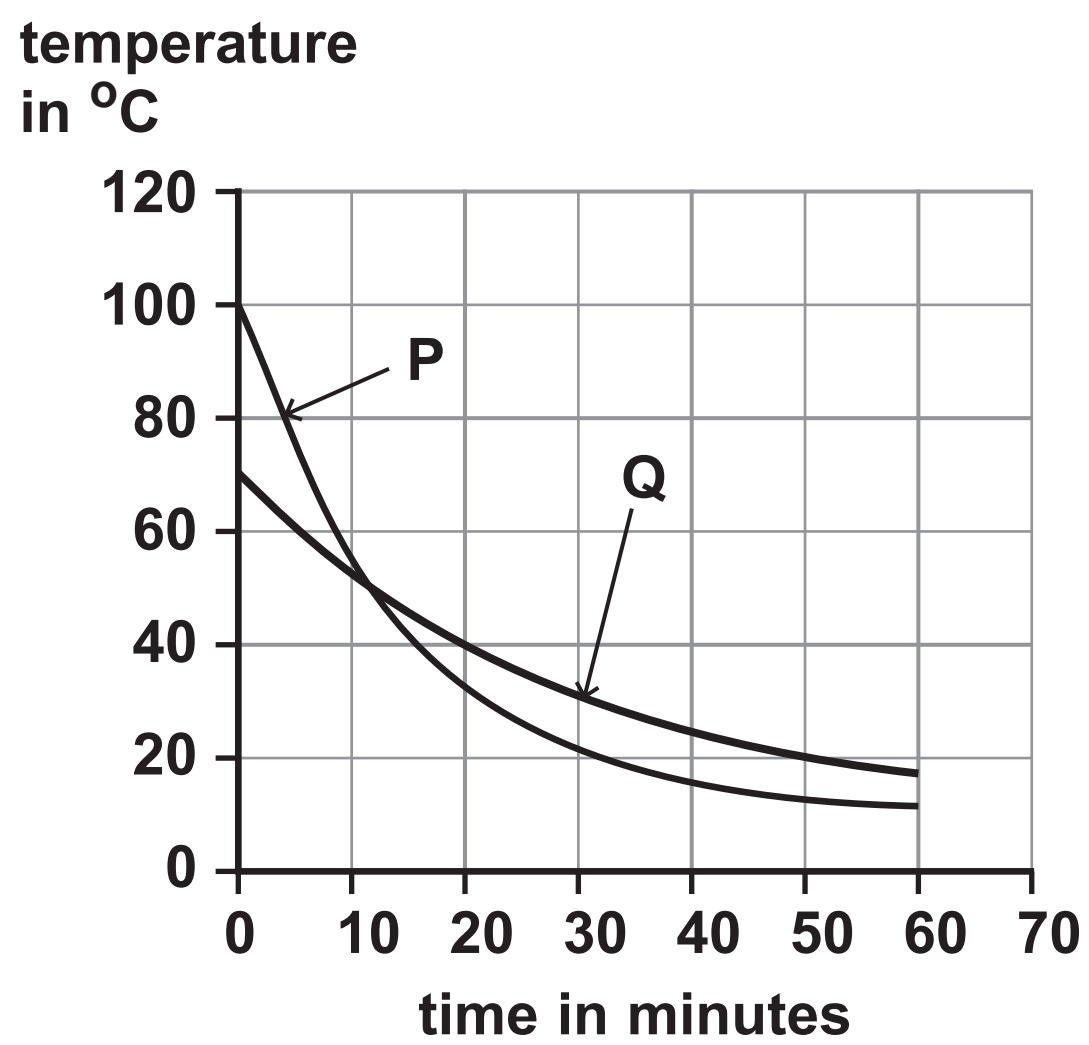
**Question 4****Figure 5**

**Question 4 (Spare copy)****Figure 5**



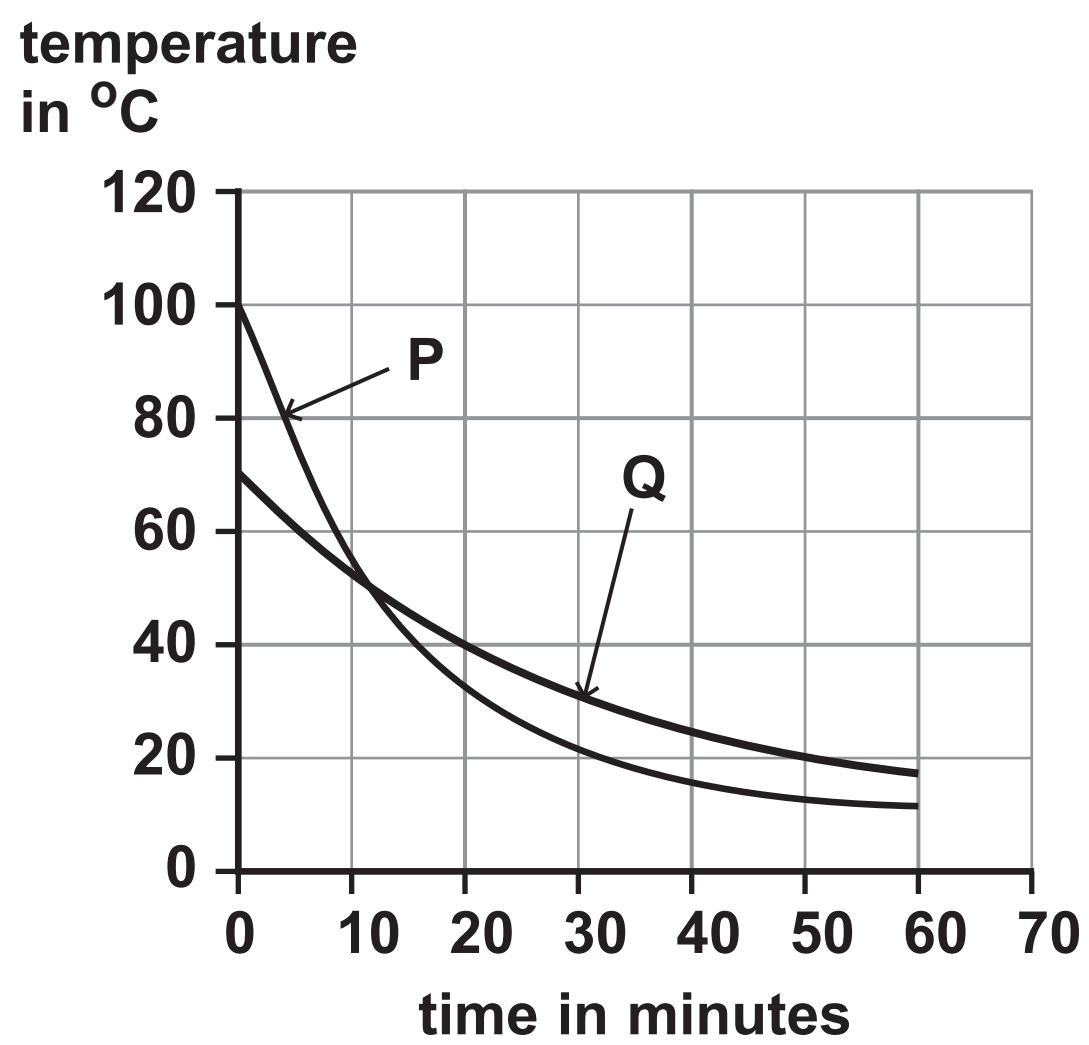
## Question 4

Figure 7



## Question 4 (Spare copy)

Figure 7



Question 5

Figure 9

mass of strontium-90 in g	time in years
1600	0
<div></div>	29
400	<div></div>

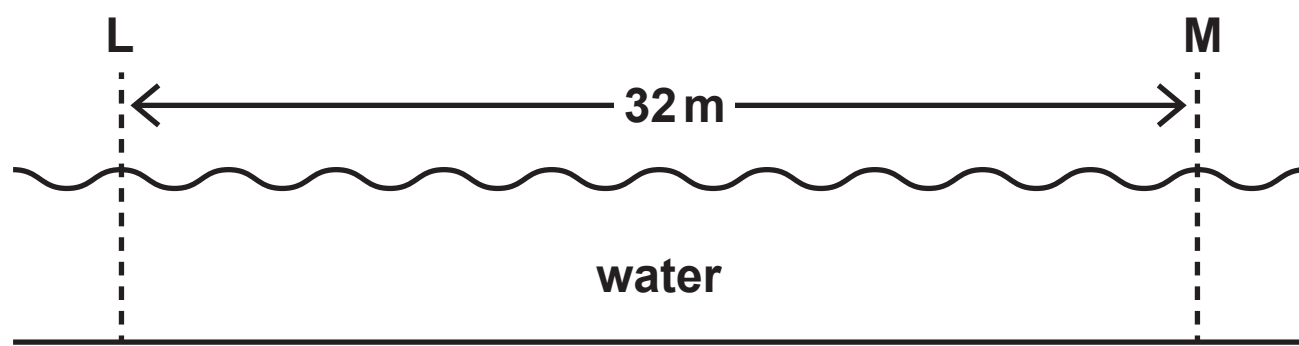
Question 5 (Spare copy)

Figure 9

mass of strontium-90 in g	time in years
1600	0
<div></div>	29
400	<div></div>

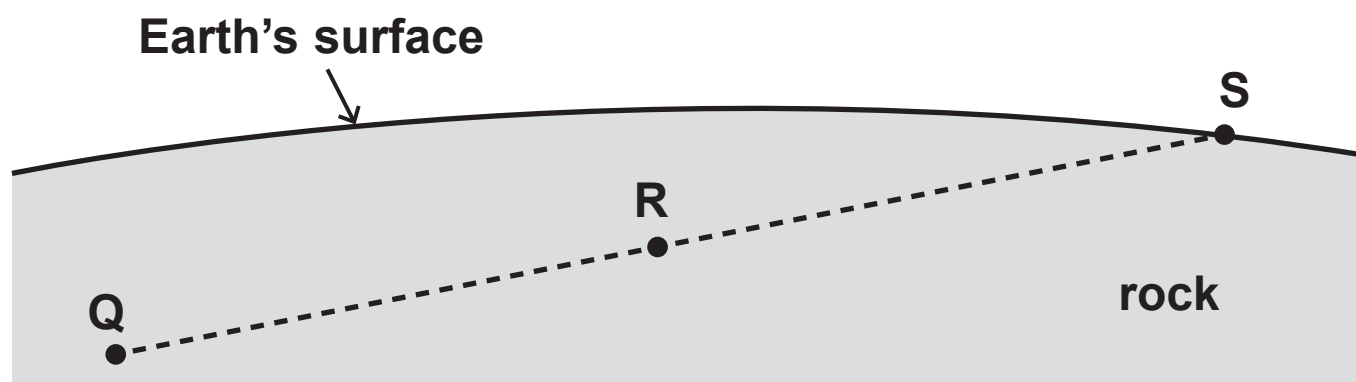
## Question 6

Figure 12



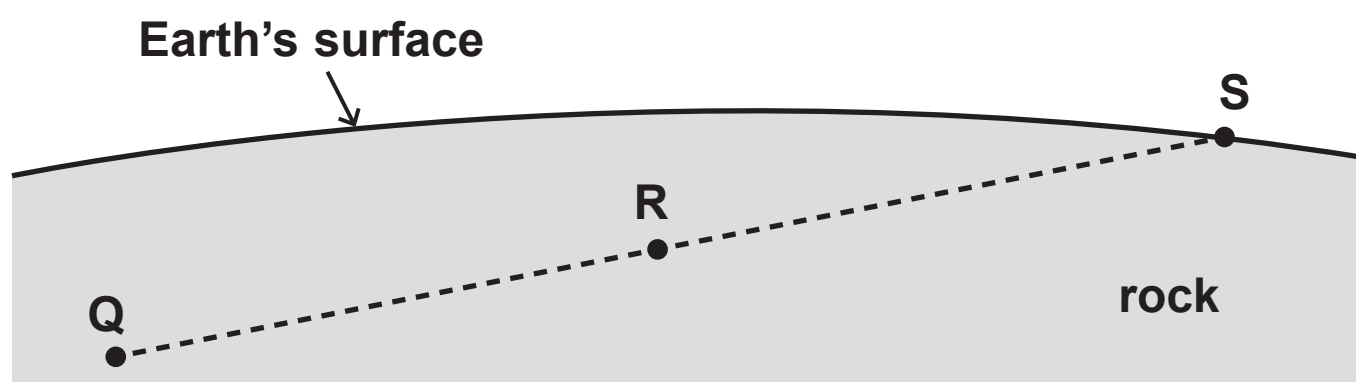
## Question 6

Figure 13



## Question 6 (Spare copy)

Figure 13



Question 7

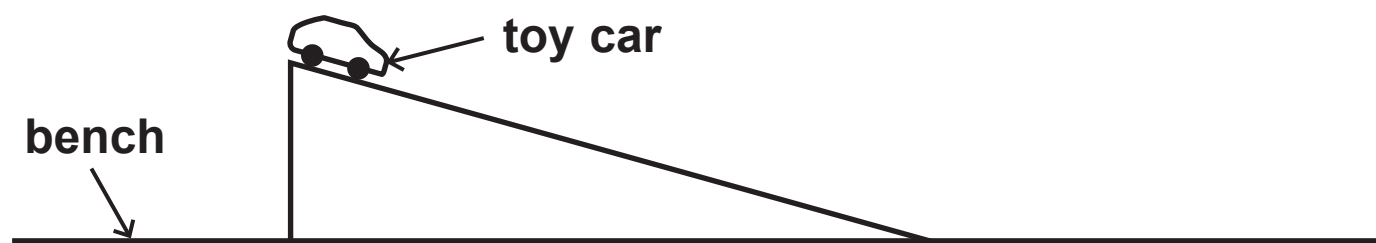
Figure 15

radioactive source	type of radiation	half-life
americium-241	alpha	433 years
actinium-225	alpha	10 days
cobalt-60	gamma	5.27 years



## Question 8

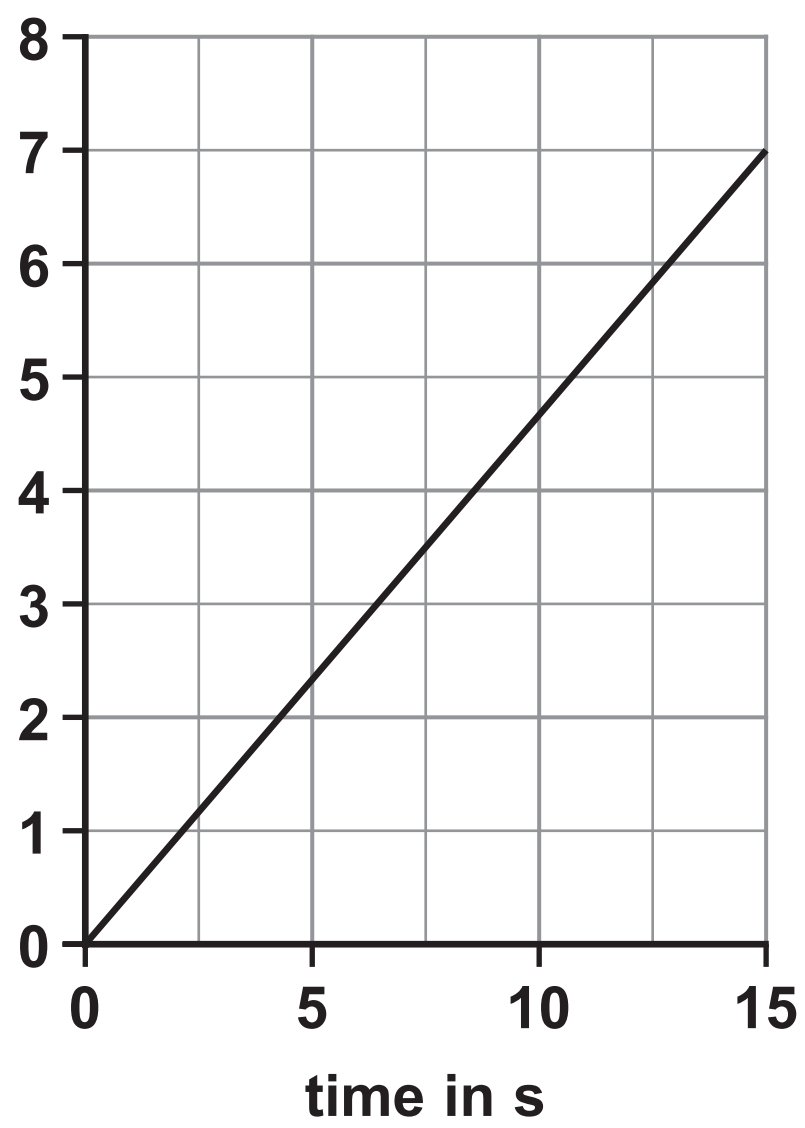
Figure 16



## Question 9

Figure 17

velocity  
in m/s



## Question 10

Figure 18

