
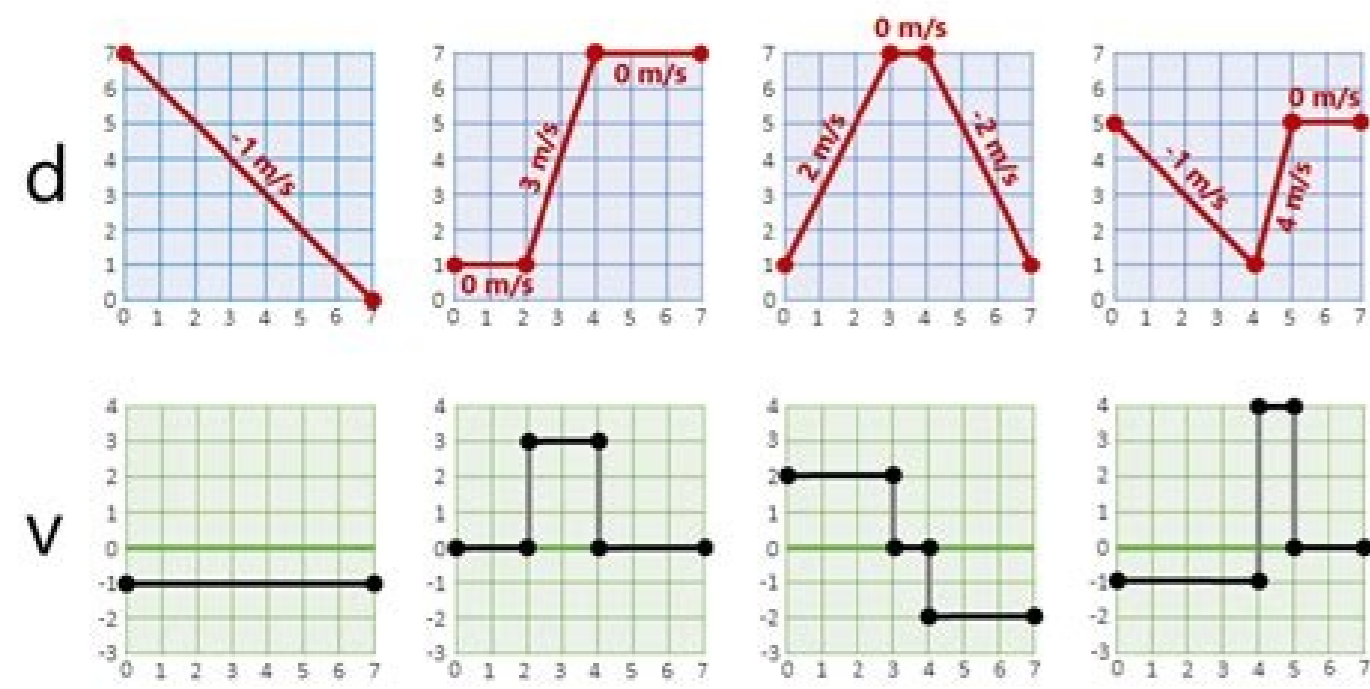


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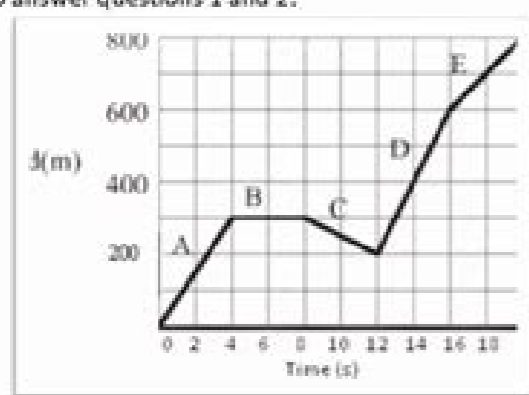
Drawing Motion Graphs = Level 2 =

Convert the following Velocity vs. Time graphs into Displacement vs. Time graphs



Name: _____ Period: _____ Date: _____
Distance-Time Graph Worksheet

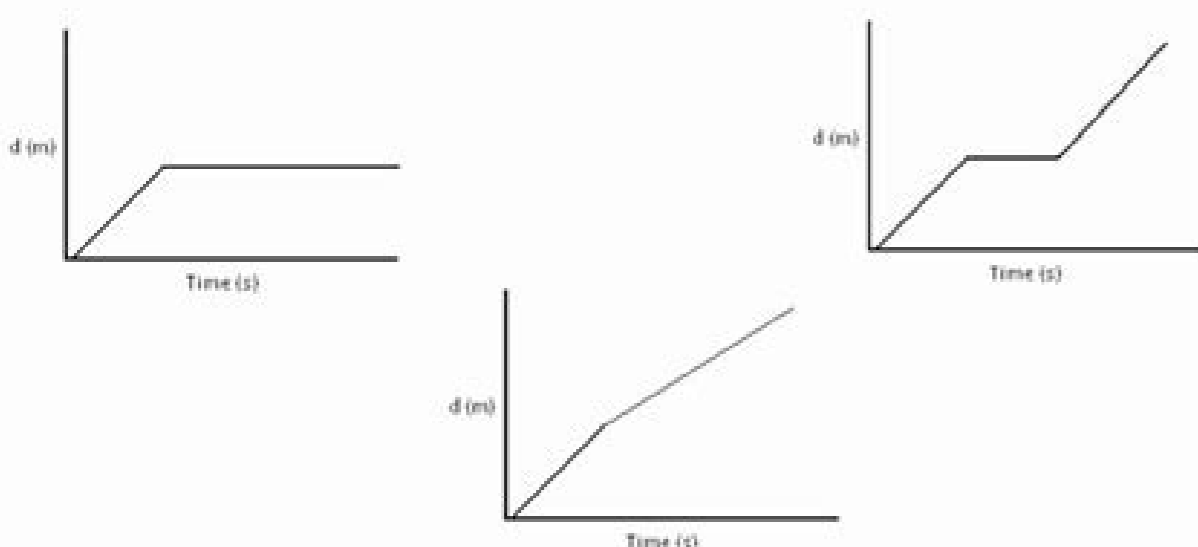
Examine this graph carefully to answer questions 1 and 2.



- How far is the truck from its starting point after:

(a) 4 s	_____	(b) 8 s	_____
(c) 12 s	_____	(d) 16 s	_____
(e) 20 s	_____		
- What is the truck's velocity in each of the intervals A through E?

A	_____	B	_____
C	_____	D	_____
E	_____		
- Beside the graph, describe briefly the kind of motion that is taking place in each of the situations represented by the following displacement vs. time graphs.



NAME: _____ BLOCK: _____
 Calculating Average Speed
 Velocity/acceleration Worksheets
 Graph the following data on the grid below and answer the questions at the bottom of the page. 500%

Time (s)	Displacement (m)
0	0
1	20
2	40
3	60
4	80
5	100
6	120
7	140
8	160
9	180
10	200

- What is the average speed after ten seconds?
- After three seconds?
- After 7 seconds?
- What is the average speed between two and four minutes?
- What is the average speed between four and five minutes?

Graph the following data on the grid below and answer the questions at the bottom of the page. 500%

Time (s)	Displacement (m)
0	0
1	20
2	40
3	60
4	80
5	100
6	120
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8	160
9	180
10	200

- What is the average speed after ten seconds?
- After three seconds?
- After 7 seconds?
- What is the average speed between two and four minutes?
- What is the average speed between four and five minutes?

Quiz & Worksheet - Acceleration in a Velocity vs. Time Graph

1. A car drives by at a speed of 8 m/s. Three seconds after the car passes you (t = 3 s) the driver hits the gas and the car begins to accelerate. Nine seconds after the car passes you (t = 9 s) the car has reached a speed of 40 m/s. What was the car's acceleration between t = 3 seconds and t = 9 seconds?

- 5.3 m/s²
- 9.8 m/s²
- 2.3 m/s²
- 1.3 m/s²
- 4.2 m/s²

2. On this graph, what is the change in velocity between 5 seconds and 8 seconds?



- 25 m/s
- 25 m/s
- 8.3 m/s²
- 8.3 m/s²
- 30 m/s

3. On this graph, what is the acceleration between 5 seconds and 8 seconds?



- 8.3 m/s²
- 8.3 m/s²
- 3.8 m/s²
- 0 m/s²
- 25 m/s²

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I'm gonna go I'm gonna go Example questions you can also like ... Section B - The line is flat, which means that the speed of the car did not change for 10 seconds, which means that it was moving at a constant speed. From: f 8.99 View product The MME GCSE Maths Review Guide covers the entire GCSE Math course with easy-to-understand examples, explanations and many exam style questions. We also provide a separate response book to facilitate the checking of your responses! From: f 19.99 f 14.99 View product GCSE Maths 2022 Predicted documents are perfect for preparing for your 2022 math exams. We know: the gradient of the line = acceleration to resolve the average acceleration during the 4 seconds, we will draw a line from where the chart is at 0 s until the chart is at 4 s and we will find the gradient of it. So, we get the average acceleration to be, $\text{gradient} = \frac{6-0}{4-0} = 1.5 \text{ m/s}^2$ level 6-7gcse finding the instant gradient, is the tangent gradient at a point. For example, I currently teach at a school that teaches physics to all high school first year students; I can use these task cards with them, no problem. Level 6-7GCSE acceleration is calculated as the change in speed over time. To do this, we will draw a tangent to the line after 2 seconds and resolve the gradient of that. 1) Line gradient = acceleration 2) Negative gradient = deceleration 3) Flat section means constant (not stopped) 4) Area under the chart = Distance Traveled Level 6-7GCSE 6-7 GCSE A skill you will need to learn is describing a velocity time chart. Then, for the next part, we said the deceleration is 0.1 m/s^2 for 20 seconds. We know the gradient of the= acceleration we must find the gradient of each section. This 32 card set includes speed and acceleration words with graphics. Then, we get that instant acceleration be, $\text{gradient} = \frac{5.8-3.2}{3.5-1.0} = 1.04 \text{ m/s}^2$ (3 sf). These documents have been designated based on base The new topics lists (progress information) published by the exam boards in February 2022! They are available in MME! From: 5.99 f f See product Finally, a constant speed will be represented by a flat line that goes up to 50 second point, still at 2 m/s. Calculate average acceleration in the 4 seconds. Level 6-7gcse calculating the total travel travel is one of the most common questions of the exam you can see. Section A - The car accelerated from 0 to 15 m/s in the first 10 seconds (because the line is straight, the acceleration is constant). This is shown above. So, if the speed decreases by 0.1 every second, after 20 seconds it will be $0.1 \times 20 = 2 \text{ m/s}$ therefore, in 32 seconds in the speed it is 2 m/s, so that We will draw a straight line of (12, 4) to (32, 2). Describe the 50 second trip. $i = 200 \text{ m}$ $d = \frac{1}{2} \times 20 \times 25 = 250 \text{ m}$ gradient over a time length. I have also used the Page 2 GCSE 6 - 7gcse acceleration between 20 and 30 = gradient $\frac{25-15}{30-20} = 1 \text{ m/s}^2$ Section D: Acceleration between 30 and 50 = acceleration $\frac{15-0}{10-0} = 1.5 \text{ m/s}^2$ Section B: Acceleration between 0 and 10 = gradient $\frac{15-0}{10-0} = 1.5$ gradient = $\frac{15-0}{10-0} = 1.5$ Section B: This section is flat, which means the acceleration will be 0 Section C: Acceleration between 20 and 30 = gradient $\frac{25-15}{30-20} = 1 \text{ m/s}^2$ Section D: Acceleration between 30 and 50 = acceleration $\frac{15-0}{10-0} = 1.5$

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