	ACCELERATION-TIME-SET-1
1	A small steel ball is dropped from a low balcony.
	A small steel ball is dropped from a low balcony.
	Ignoring air resistance, which statement describes its motion?
	A It falls with constant acceleration.
	B It falls with constant speed.
	C It falls with decreasing acceleration.
	D It falls with decreasing speed.
MS-1	A
2	The speed-time graph shown is for a bus travelling between stops.
	Where on the graph is the acceleration of the bus the greatest?
	speed B time
MS-2	В
3	Which person is experiencing an acceleration? A a driver of a car that is braking to stop at traffic lights B a passenger in a train that is stationary in a railway station
	 C a shopper in a large store ascending an escalator (moving stairs) at a uniform rate D a skydiver falling at constant speed towards the Earth
MS-3	A

4	Below are four statements about acceleration.
	Which statement is not correct?
	A Acceleration always involves changing speed.
	B Changing direction always involves acceleration.
	C Changing speed always involves acceleration.
	D Circular motion always involves acceleration.
MS-4	A
5	A sprinter runs a 100 m race in a straight line. The table shows how his speed changes with time for the first 5.0 s of the race. speed 0 1.7 4.1 5.7 6.5 6.8
	m/s
	What is the average acceleration of the sprinter between time 2.0 s and time 3.0 s? A 1.6m/s^2 B 1.9m/s^2 C 4.1m/s^2 D 5.7m/s^2
MS-5	A
6	The velocity of an object increases from 30m/s to 50m/s in 5.0 seconds. What is the average acceleration of the object? A 0.10m/s^2 B 0.25m/s^2 C 4.0m/s^2 D 10m/s^2
MS-6	С

7	Four students try to explain what is meant by acceleration. Which student makes a correct statement? A It is related to the changing speed of an object. B It is the distance an object travels in one second.
MS-7	A
8	A ball is thrown upwards.
	What effect does the force of gravity have on the ball?
	A It produces a constant acceleration downwards.
	B It produces a constant acceleration upwards.
	C It produces a decreasing acceleration upwards.
	D It produces an increasing acceleration downwards.
MS-8	A

9 The table shows the readings on a car speedometer at 5 second intervals. speed time/s km/h 0 0 5 30 10 50 15 60 20 65 Which row describes the speed and the acceleration of the car? speed acceleration decreasing Α zero decreasing В not zero

zero

not zero

increasing

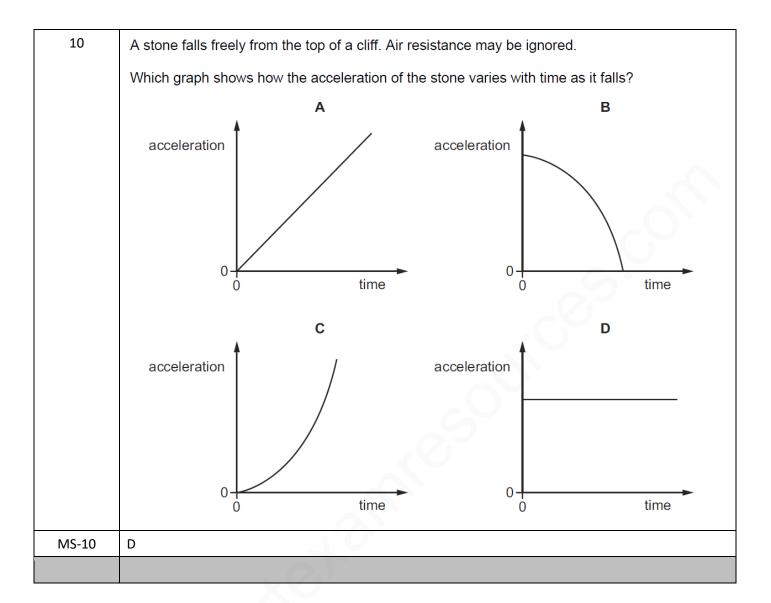
increasing

C

D

D

MS-9



A car travels along a horizontal road in a straight line. The driver presses the accelerator to increase the speed of the car.

The speed-time graph for the car is shown.

Speed

MS-11

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