

KENDRIYA VIDYALAYA CHENANI
WORKSHEET OF SCIENCE
For the month of April

Class IX

Name

Roll no.

1. True false (5)

i) Speed is a vector quantity.

ii) Acceleration is a scalar quantity.

iii) Distance can be greater than displacement.

iv) Odometer of a motor vehicle reads velocity.

v) Acceleration is the change in displacement with respect to time.

2. Fill in the blanks.... (5)

i) The slope of velocity time graph represents.....

ii) The area under acceleration time graph represents

iii) The units of acceleration are

iv) The motion of the hands of a wall clock is an example of motion.

v) The velocity of a body is the change in with time.

3. A bus starts from rest moves with a uniform acceleration of 0.2 ms^{-2} for 2 minutes. Find a) the speed acquired.

b) The distance travelled. (3)

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4. A farmer is moving around a circular field of radius 10 m in 30 sec. Find the displacement and the distance travelled at the end of 2 min 45 sec. (2)

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5. A farmer is moving around a square field of side 10 m in 30 sec. Find the displacement and the distance travelled at the end of 2 min 45 sec. (2)

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6. A stone is thrown upwards with a velocity of 5ms^{-1} . If the acceleration of the stone during its motion is 20ms^{-1} in the downward direction, what will be the height attained by the stone and how much time will it take to reach there? (3)

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7. Write the points of distinction between speed and velocity. (3)

speed



velocity

8. Give an example to show that even if some body has moved by some distance its displacement will be zero. (2)

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Parent's Signature