

# Physics

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## (Chapter 4) (Laws of Motion) (Exercises) (Class 11)

### Question 4.7:

A body of mass 5 kg is acted upon by two perpendicular forces 8 N and 6 N. Give the magnitude and direction of the acceleration of the body.

### Answer 4.7:

Mass of the body,  $m = 5 \text{ kg}$

The given situation can be represented as follows:

The resultant of two forces is given as:

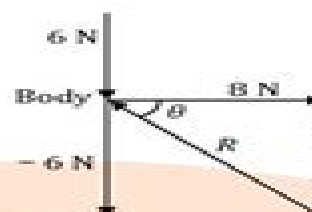
$$R = \sqrt{(8)^2 + (-6)^2} = \sqrt{64 + 36} = 10 \text{ N}$$

$\theta$  is the angle made by  $R$  with the force of 8 N

$$\therefore \theta = \tan^{-1} \left( \frac{-6}{8} \right) = -36.87^\circ$$

The - sign indicates that  $\theta$  is in the clockwise direction with respect to the force of magnitude 8 N. As per Newton's second law of motion, the acceleration ( $a$ ) of the body is given as:  $F = ma$

$$\therefore a = \frac{F}{m} = \frac{10}{5} = 2 \text{ m/s}^2$$



### Question 4.8:

The driver of a three-wheeler moving with a speed of 36 km/h sees a child standing in the middle of the road and brings his vehicle to rest in 4.0 s just in time to save the child. What is the average retarding force on the vehicle? The mass of the three-wheeler is 400 kg and the mass of the driver is 65 kg.

### Answer 4.8:

Initial speed of the three-wheeler,  $u = 36 \text{ km/h}$ , Final speed of the three-wheeler,  $v = 0 \text{ m/s}$

Time,  $t = 4 \text{ s}$

Mass of the three-wheeler,  $m = 400 \text{ kg}$  and

Mass of the driver,  $m' = 65 \text{ kg}$

Total mass of the system,  $M = 400 + 65 = 465 \text{ kg}$

By the first law of motion, the acceleration of the three-wheeler can be calculated as:

$$v = u + at$$

$$\therefore a = \frac{v - u}{t} = \frac{0 - 10}{4} = -2.5 \text{ m/s}^2$$

The negative sign indicates that the velocity of the three-wheeler is decreasing with time.

Using Newton's second law of motion, the net force acting on the three-wheeler can be calculated as:  $F = Ma = 465 \times (-2.5) = -1162.5 \text{ N}$

The negative sign indicates that the force is acting against the direction of motion of the three-wheeler.

### Question 4.9:

A rocket with a lift-off mass 20,000 kg is blasted upwards with an initial acceleration of  $5.0 \text{ m/s}^2$ . Calculate the initial thrust (force) of the blast.

### Answer 4.9:

Mass of the rocket,  $m = 20,000 \text{ kg}$  and

Initial acceleration,  $a = 5 \text{ m/s}^2$

Acceleration due to gravity,  $g = 10 \text{ m/s}^2$

Using Newton's second law of motion, the net force (thrust) acting on the rocket is given by the relation:  $F - mg = ma$

$$F = m(g + a) = 20000 \times (10 + 5) = 20000 \times 15 = 3 \times 10^5 \text{ N}$$

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**Anthony S. Fauci**



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