

Momentum Answers

1. Josephine is riding her bike at 10m/s . The combined mass of Josephine and her bike is 90kg . What is their momentum?

$$10\text{m/s} \times 90\text{kg} = 900\text{kg m/s}$$

2. Jacques is sky-diving and has a mass of 80kg :

- a. He has reached his terminal velocity of 53m/s . What is his momentum?

$$4240\text{kgm/s}$$

- b. Jacques then opens his parachute, drastically reducing his terminal velocity to 8m/s . What is his new momentum?

$$8\text{m/s} \times 80\text{kg} = 640\text{kg m/s}$$

3. A 2000kg ship is sailing at a velocity of 30m/s :

- a. What is the ship's momentum?

$$30\text{m/s} \times 2000\text{kg} = 60000\text{kg m/s}$$

- b. What two actions could the ship take to reduce its momentum?

a; Reducing its velocity by turning down the engines

b; Reducing its mass by throwing objects overboard

4. The plane from last lesson's worksheet is still travelling with a velocity of 280m/s and still has a mass of 380000kg . What is its momentum?

$$280\text{m/s} \times 380000 = 106400000\text{kg m/s} = 1.1 \times 10^8 \text{kgm/s}$$

Extension Questions

1. A toy car has a mass of 80g and races along with a speed of 2m/s . What is its momentum?

$$0.08\text{kg} \times 2\text{m/s} = 0.16\text{kg m/s}$$

2. Usain Bolt has a mass of 94kg and has a maximum momentum of 987kg m/s . What is his maximum velocity?

$$V = p \div m \rightarrow 987\text{kg m/s} \div 94\text{kg} = 10.5 \text{ m/s}$$

3. A Range Rover Classic has a mass of 2011kg whilst a Smart Car has a mass of 820kg :

Answer Key For Momentum Exercises

Disha Experts

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

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