

FORCE AND ACCELERATION WORKSHEET

$$F = m \times a$$

1. Jennifer has a mass of 60kg and is accelerating down the hill on her skateboard at a rate of 3m/s^2 .

a. What is the force applied to Jennifer?

180N

b. Jihaan is riding on his bike behind with a combined mass of 110kg. What forward force must he apply to keep up with Jennifer?

330N

2. Joel is standing on the scales in the lift at the bottom of the Burj Khalifa. He knows his mass to be 73kg.

a. The scales Joel is standing on reads 715.4N, what is the acceleration due to gravity?

9.8m/s^2

b. The elevator now accelerates upwards at a rate of 0.1m/s^2 , what do the scales read now?

897.9N

3. A Bugatti Veyron can accelerate from 0 to 60mph in 2.46 seconds.

a. What's the max acceleration of the Bugatti Veyron? (1mph equals 0.45m/s)

10.98s ~ 11s

b. During this acceleration, the engines apply a force of 12500N to the car. Calculate the mass of the Bugatti Veyron.

1136kg

4. A rebel alliance ship is on the run from an imperial war ship. The rebel ship with cargo has a combined mass of 17500kg and is accelerating at a rate of 2.8km/s^2 .

a. What is the force applied to the engines to accelerate the rebel ship? (no pun intended)

$49000000\text{N} = 4.9 \times 10^7\text{N}$

Unfortunately, the imperial war ship is catching up, accelerating at a rate of 3.5km/s^2 . In order to escape, the crew of the rebel ship decide to jettison some cargo.

b. How much mass must the rebel's jettison in order to escape the imperial ship?

3500kg

Answers Key To Force And Acceleration

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