

3 A space probe that has a mass of 600 kg is on the planet Mars.

The acceleration of free fall on Mars is 4.0 m/s^2 .

What is the weight of the space probe on Mars?

- A** 60 N **B** 150 N **C** 2400 N **D** 6000 N

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4 Which measuring instrument is used to compare masses?

- A** balance
B protractor
C stop-watch
D voltmeter

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2 Which name is given to the quantity of matter in an object?

- A** density
B mass
C volume
D weight

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4 On the Earth, a spring stretches by 5.0 cm when a mass of 3.0 kg is suspended from one end.

The gravitational field strength on the Moon is $\frac{1}{6}$ of that on the Earth.

Which mass, on the Moon, would stretch the spring by the same extension?

- A** 0.50 kg **B** 3.0 kg **C** 5.0 kg **D** 18 kg