

1 The approximate distance from the Earth to the Moon is  $4 \times 10^2$  Mm.

Assuming the Moon's orbit around the Earth to be circular, what is the approximate area of the space that the orbit encloses?

- A  $5 \times 10^{-1}$  Gm<sup>2</sup>
- B  $5 \times 10^2$  Gm<sup>2</sup>
- C  $5 \times 10^{-2}$  Tm<sup>2</sup>
- D  $5 \times 10^0$  Tm<sup>2</sup>

2 The total length of the sides of a right-angled triangle is 10 cm. If the area of the triangle is 12 cm<sup>2</sup>, then the length of the hypotenuse is