Calculating With Bounds

Steve measures the length and width of a rectangle as 600 mm and 400 mm, both correct to 10 mm.

(a) Find the upper and lower bounds of the **perimeter** of the rectangle.

(b) Find the upper and lower bounds of the **area** of the rectangle.

Milly measures the length and width of a field as 25 m and 20 m, both to the nearest m.

(a) Find the upper and lower bounds of the **perimeter** of the field.

(b) Find the upper and lower bounds of the **area** of the field.

Ola's weight is 47 kg, correct to the nearest kg. Tia's weight is 55 kg, also correct to the nearest kg.

(a) Find the upper and lower bounds of the **total weight** of the two girls.

(b) Find the upper and lower bounds of the **difference** in their weights.

A car travels 240 km in 4 hours, both measured to the nearest unit. Find the upper and lower bounds of the car's speed.

A rock has a mass of 5 kg to the nearest 0.5 kg, and a volume of 2.1 m^3 to 1 decimal place. Find the upper and lower bounds of the density of the rock.

A cuboid has dimensions of 8 cm by 10 cm by 12 cm, all measured to the nearest cm. Find the upper and lower bounds of the volume of the cuboid.

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