Maths

Helicopter Measurements

Time recommended: 30 minutes
Year 5 and 6

Strand:	Measurement and Geometry
Descriptor:	Using units of measurement

- Calculate the perimeter and area of rectangles using familiar metric units (ACMMG109)
- Convert between common metric units of length, mass and capacity (ACMMG136)

Helicopter measurements

Using a metre wheel or tape measure, work out the amount of space required for the helicopter to land. Then convert measurements into a range of metric units.

TASK ONE:

As a class find the best space at your school for the helicopter to land, remember the helicopter needs 40 metres x 40 metres to land safely.

If your tape measure is only 10 metres long, how would you work out the full length of the landing site? Shorten your tape measure to 10 metres and try different techniques.

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If the average length of a helicopter is 12.5 metres, how long is it in centimetres and millimetres?

_____ centimetres   _____ millimetres

If the width of the cabin is 2.2 metres, how wide is that in centimetres and millimetres?

_____ centimetres   _____ millimetres

TASK TWO:

If the helicopter weighs 1.3 tonnes, what is the weight of the helicopter in kilograms, grams and milligrams?

_____ kilograms   _____ grams   _____ milligrams

If the average Australian weighs 71.1 kilograms and the helicopter can carry a total passenger weight of 180 kilograms, how many people can the helicopter take on average?

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