Y5/6 Measures and Data Unit 4 (56618)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y5 Finding volumes Sheet 1

Working towards ARE / Working at ARE / Greater Depth Working towards ARE make 3 cuboids using centimetre cubes and find their volumes.

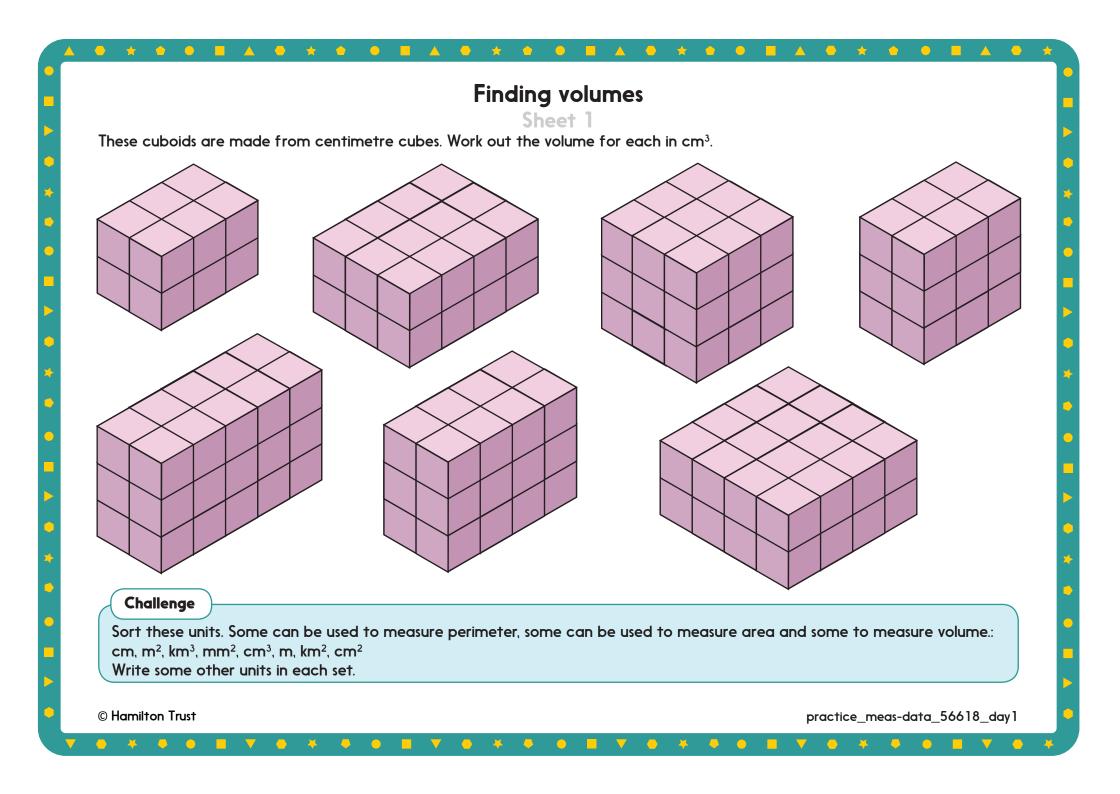
Day 1 Y6 Finding volumes of cuboids Sheet 2 Working towards ARE

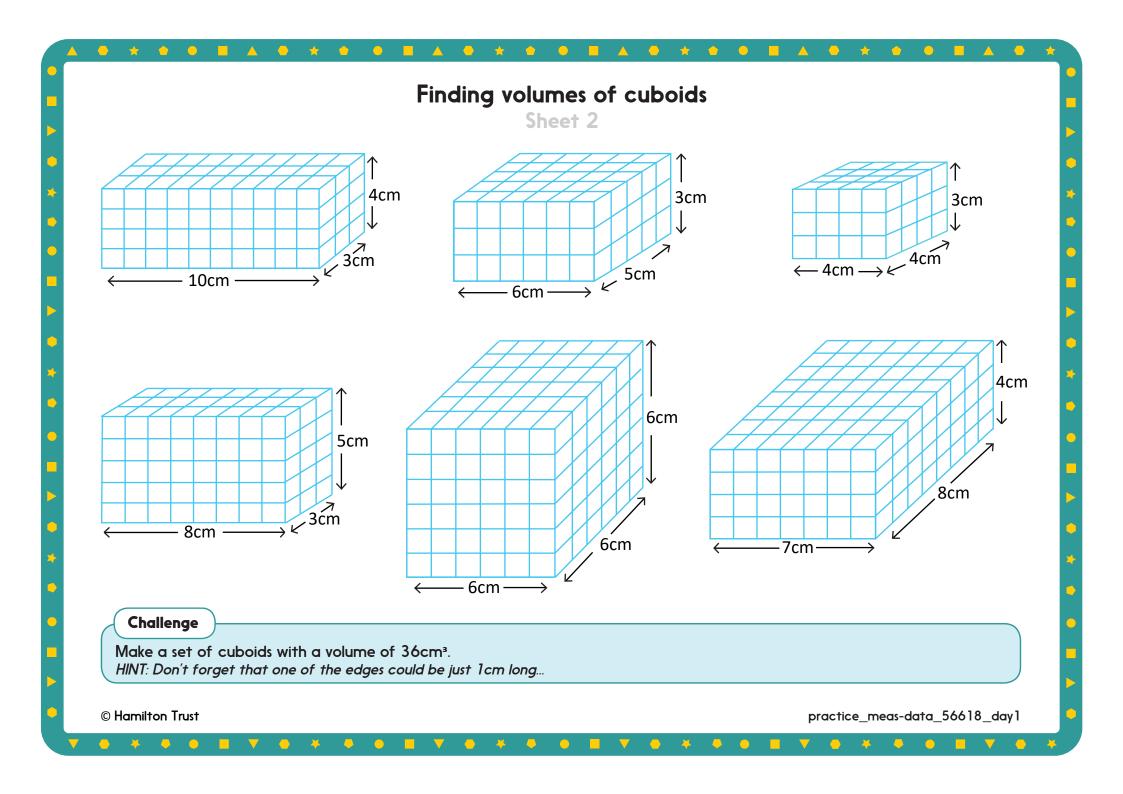
Day 1 Y6 Finding volumes of cuboids Sheet 3 Working at ARE / Greater Depth

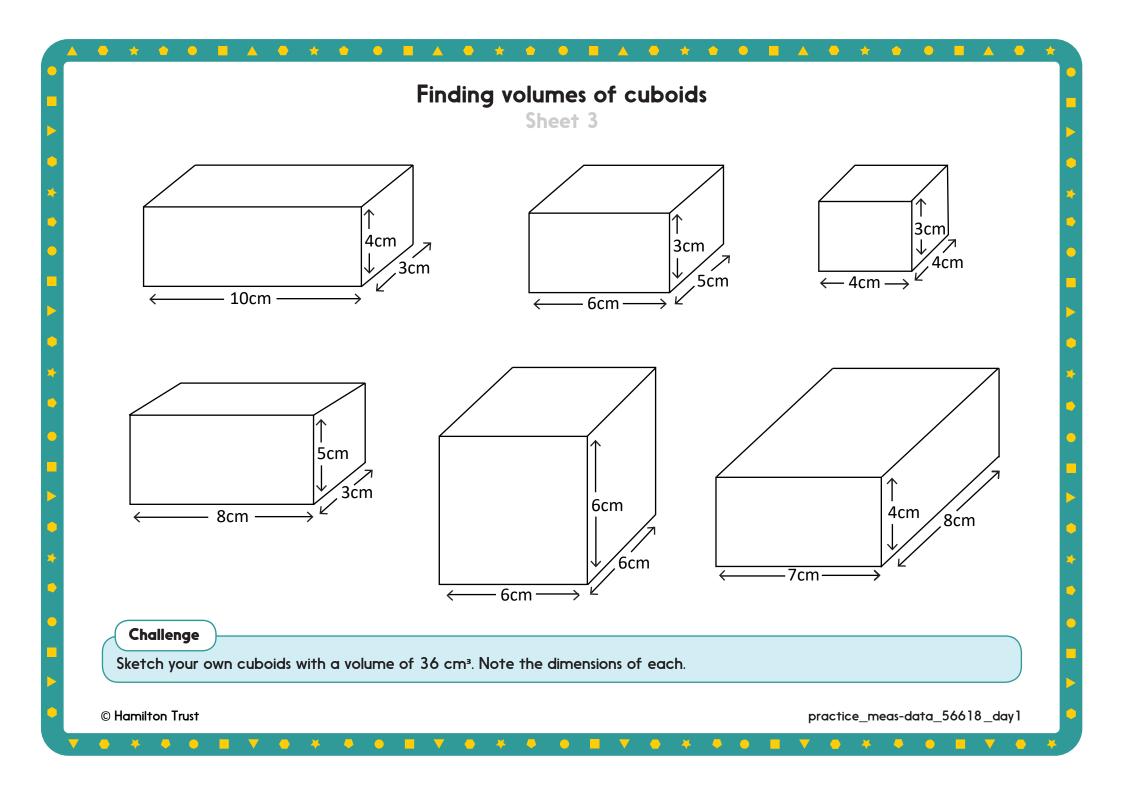
Day 2 Y5 Find volumes of cuboids Sheet 1 Working towards ARE / Working at ARE / Greater Depth

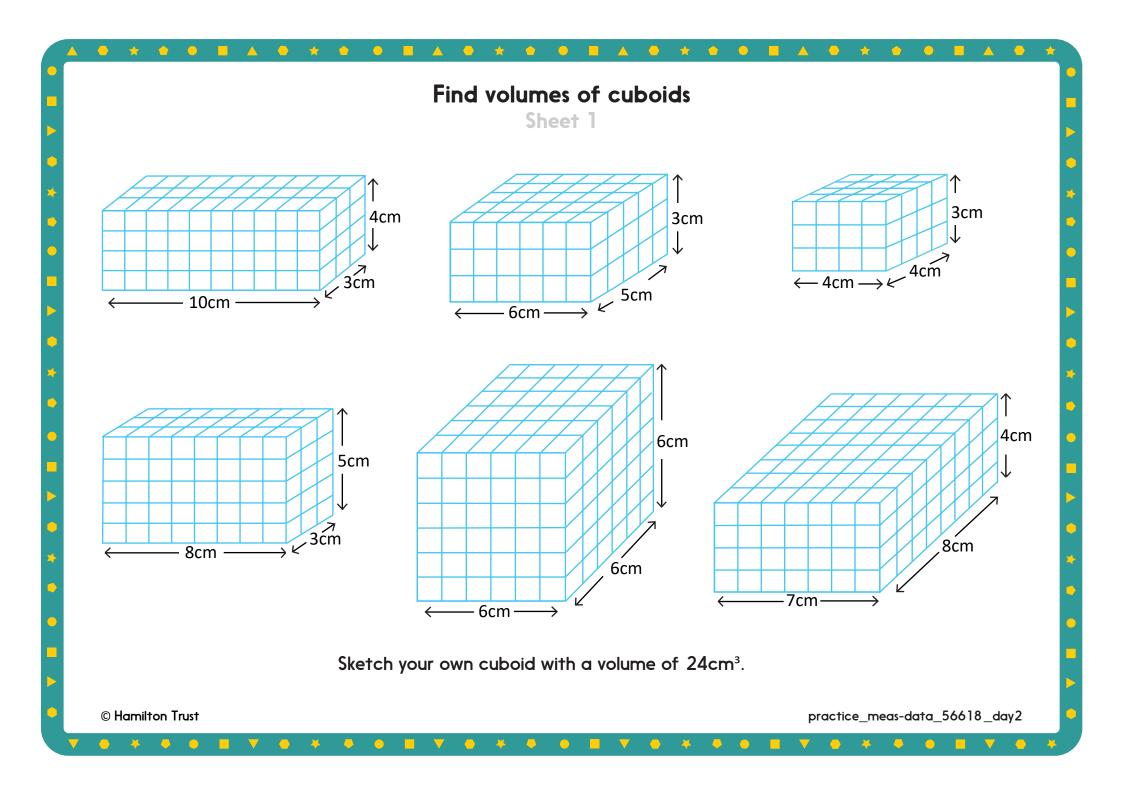
Day 2 Y6 Missing edges Sheet 2 Working towards ARE

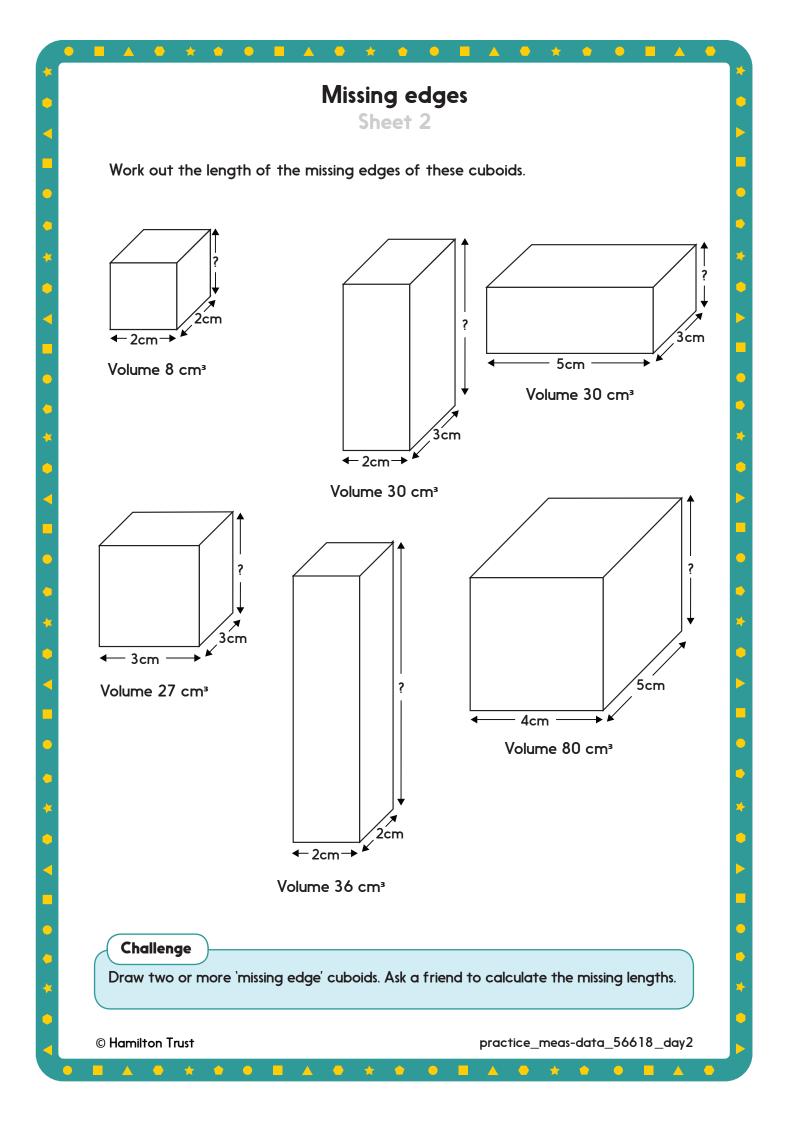
Day 2 Y6 Missing edges Sheet 3 Working at ARE / Greater Depth

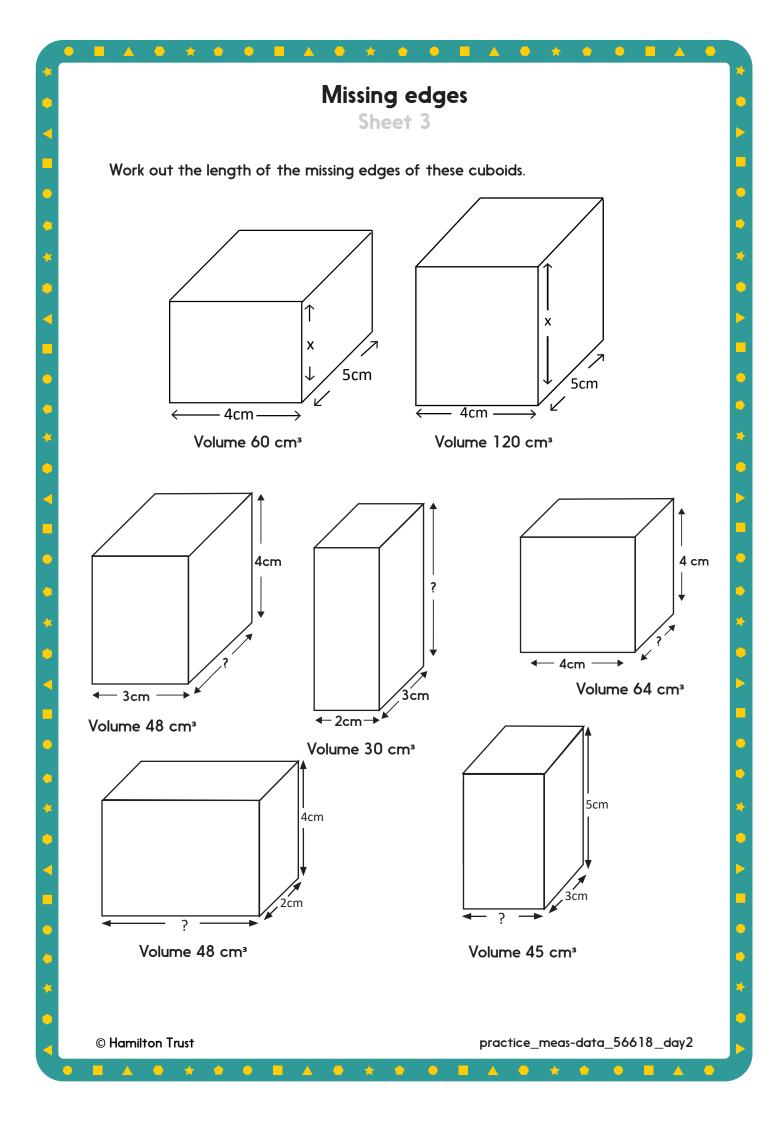












Measures and data

Answers

Day 1 Y5 Finding volumes Sheet 1

 $2 \times 3 \times 2 = 12 \text{ cm}^3$ $3 \times 4 \times 2 = 24 \text{ cm}^3$ $3 \times 3 \times 3 = 27 \text{ cm}^3$ $2 \times 3 \times 3 = 18 \text{ cm}^3$ $2 \times 5 \times 3 = 30 \text{ cm}^3$ $2 \times 4 \times 3 = 24 \text{ cm}^3$ $4 \times 4 \times 2 = 32 \text{ cm}^3$

Challenge

Perimeter: cm, m also km, mm Area: m², mm², km², cm² Volume: km³, cm³ also mm³, m³

Day 1 Y6 Finding volumes of cuboids Sheets 2 and 3

10cm x 3cm x 4cm = 120cm² 6cm x 5cm x 3cm = 90cm² 4cm x 4cm x 3cm = 48cm² 8cm x 3cm x 5cm = 120cm² 6cm x 6cm x 6cm = 216cm² 7cm x 8cm x 4cm = 224cm²

Challenge

Cuboids could have dimensions as follows: 1 x 1 x 36cm 2 x 2 x 9cm 3 x 3 x 4cm 1 x 2 x 18cm 2 x 3 x 6cm 1 x 3 x 12cm 1 x 4 x 9cm 1 x 6 x 6cm

Day 2 Y5 Find volumes of cuboids Sheets 1

10cm x 3cm x 4cm = 120cm² 6cm x 5cm x 3cm = 90cm² 4cm x 4cm x 3cm = 48cm² 8cm x 3cm x 5cm = 120cm² 6cm x 6cm x 6cm = 216cm² 7cm x 8cm x 4cm = 224cm²

Challenge

Cuboids could have dimensions as follows: 1 x 1 x 24cm 2 x 2 x 6cm 1 x 2 x 12cm 2 x 3 x 4cm 1 x 3 x 8cm 1 x 4 x 6cm

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Measures and data

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Answers

Day 2 Y6 Missing edges Sheet 2

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Volume 8cm ²	Edges are: 2 x 2 x <mark>2cm</mark>
Volume 30cm ²	Edges are: 2 x 3 x 5cm
Volume 30cm ²	Edges are: 5 x 3 x 2cm
Volume 27cm ²	Edges are: 3 x 3 x 3cm
Volume 36cm ²	Edges are: 2 x 2 x <mark>9cm</mark>
Volume 80cm ²	Edges are: 4 x 5 x 4cm

Day 2 Y6 Missing edges Sheet 3

Volume 60cm ²	Edges are: 4 x 5 x 3cm
Volume 120cm ²	Edges are: 4 x 5 x 6cm
Volume 48cm ²	Edges are: 3 x 4 x 4cm
Volume 30cm ²	Edges are: 2 x 3 x 5cm
Volume 64cm ²	Edges are: 4 x 4 x <mark>4cm</mark>
Volume 48cm ²	Edges are: 2 x 4 x <mark>6cm</mark>
Volume 45cm ²	Edges are: 3 x 5 x <mark>3cm</mark>

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