

Area, volume, coordinates and averages

Find measures and use coordinates and the mean.

Name: _____ Date: _____

1. A triangle has base 10 cm and perpendicular height 6 cm. Find its area.

2. A parallelogram has base 7 cm and perpendicular height 4 cm. Find its area.

3. A cuboid measures 5 cm by 3 cm by 4 cm. Find its volume.

4. Reflect the point (3, -2) in the y-axis (the vertical axis).

5. Move (-4, 1) three units right and two units down. Give the new coordinates.

6. Find the mean of 4, 7, 8 and 9.

7. Two angles of a triangle are 48 degrees and 67 degrees. Find the third angle.

8. Four children collect 6, 8, 10 and 12 shells. A fifth child joins. The new mean is 9. How many shells has the fifth child?

Answers: Area, volume, coordinates and averages

Try the questions first. Use these notes to check your thinking.

1. 30 square centimetres

Half of 10×6 .

2. 28 square centimetres

$7 \times 4 = 28$.

3. 60 cubic centimetres

$5 \times 3 \times 4 = 60$.

4. (-3, -2)

The horizontal coordinate changes sign.

5. (-1, -1)

Add 3 to the first coordinate and subtract 2 from the second.

6. 7

The total is 28; divide by 4.

7. 65 degrees

$180 - 48 - 67 = 65$.

8. 9

Five lots of 9 total 45; the first four have 36; $45 - 36 = 9$.

Original Trace Learn questions. Curriculum scope: maths programmes of study, Department for Education.
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