



# Grade 6 Maths Reviewer · Quarter

## 3

MATATAG curriculum · read the rule, study the example, then try it yourself



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Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

### Volume of cubes and prisms

**Remember:** Volume counts the cubes that fill a box: length  $\times$  width  $\times$  height. Build boxes with sugar cubes.

**Example:** A box is 6 cm long, 6 cm wide and 3 cm high. What is its volume?

Answer: **108 cm<sup>3</sup>**

Try it:

- 1 A box is 4 cm long, 7 cm wide and 2 cm high. What is its volume?
- 2 A box is 7 cm long, 7 cm wide and 8 cm high. What is its volume?

### Converting cm<sup>3</sup> and litres

**Remember:** Remember the key facts: 1 m = 100 cm, 1 km = 1000 m, 1 kg = 1000 g, 1 L = 1000 mL. Measure real things.

**Example:** 4 L = \_\_\_\_ cm<sup>3</sup>

Answer: **4,000**

Try it:

- 3 7 L = \_\_\_\_ cm<sup>3</sup>
- 4 3 L = \_\_\_\_ cm<sup>3</sup>

### Area of plane figures

**Remember:** A triangle is half a rectangle with the same base and height. A trapezoid is (top + bottom)  $\div$  2  $\times$  height.

**Example:** A parallelogram has a base of 6 cm and a height of 3 cm. What is its area?

Answer: **18 cm<sup>2</sup>**

Try it:

- 5 A parallelogram has a base of 20 cm and a height of 12 cm. What is its area?
- 6 A trapezoid has parallel sides of 18 cm and 11 cm and a height of 3 cm. What is its area?

### Circumference

**Remember:** Circumference =  $\pi \times$  diameter (or  $2 \times \pi \times$  radius). Area =  $\pi \times$  radius  $\times$  radius. Measure a round lid with string.

**Example:** A circle has a radius of 10 cm. Using  $\pi \approx 3.14$ , what is its **circumference**?

Answer: **62.80 cm**

Try it:

- 7 A circle has a radius of 4 cm. Using  $\pi \approx 3.14$ , what is its **circumference**?
- 8 A circle has a radius of 7 cm. Using  $\pi \approx 22/7$ , what is its **circumference**?



# Answer key · Grade 6 Maths Reviewer · Quarter 3

Try-it answers



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| # | Skill                                 | Answer               |
|---|---------------------------------------|----------------------|
| 1 | Volume of cubes and prisms            | 56 cm <sup>3</sup>   |
| 2 | Volume of cubes and prisms            | 392 cm <sup>3</sup>  |
| 3 | Converting cm <sup>3</sup> and litres | 7,000                |
| 4 | Converting cm <sup>3</sup> and litres | 3,000                |
| 5 | Area of plane figures                 | 240 cm <sup>2</sup>  |
| 6 | Area of plane figures                 | 43.5 cm <sup>2</sup> |
| 7 | Circumference                         | 25.12 cm             |
| 8 | Circumference                         | 44 cm                |

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