

# Perimeter, Area, Volume & Capacity

## Revision Worksheet — Interactive

Type your answers directly into the blue fields. Show all working.

Name:

Class:

Date:

### MYP Key Concept: Relationships

Global Context: Scientific and Technical Innovation

#### Instructions

Show all working in the answer fields. Use  $\pi = 3.14$  unless told otherwise. Include correct units in every answer.

## SECTION A: PERIMETER

1. A rectangle with length 12 cm and width 5 cm. Find the perimeter.

2. A square with side length 7.5 m. Find the perimeter.

3. Find the circumference of a circle with radius 4 cm. Use  $\pi = 3.14$ .

4. A rectangle has perimeter 36 cm. Length is 11 cm. Find the width. Show each step.

## SECTION B: AREA

5. A rectangle: length 9 cm, width 4 cm.

6. A triangle: base 10 cm, height 7 cm.

**7. A circle with diameter 10 cm. Use  $\pi = 3.14$ .**

(a) What is the radius?

(b) Find the area using  $A = \pi r^2$

**8. A garden is 15 m  $\times$  8 m. A square pond (3 m sides) is inside. Find the area NOT covered by the pond.**

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## SECTION C: SURFACE AREA & VOLUME

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**9. Find the surface area of a rectangular prism: 10 cm  $\times$  6 cm  $\times$  3 cm.**

**10. Find the volume of a rectangular prism: 8 cm  $\times$  5 cm  $\times$  4 cm.**

**11. A triangular prism has triangle base 5 cm, height 4 cm, length 12 cm. Find the volume.**

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## SECTION D: CAPACITY

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**12. Convert: (a) 350 cm<sup>3</sup> to mL (b) 2,500 mL to L (c) 0.8 m<sup>3</sup> to L**

**13. A fish tank is 80 cm  $\times$  40 cm  $\times$  50 cm. It is filled to 80% of its height. How many litres?**

## BONUS

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14. A swimming pool is 25 m long, 10 m wide, and 1.5 m deep. How many litres does it hold?

15. A cube has surface area  $150 \text{ cm}^2$ . What is its volume? Show all steps.

16. Explain in your own words the difference between area, surface area, and volume. Give a real-life example for each.

Finished? Practise at: [learnlattice.org/students/exam-revision](https://learnlattice.org/students/exam-revision)