Area of triangles

A **parallelogram**'s area is **base × height**; a **triangle** is **half** of that, because two triangles make a parallelogram.

→ Parallelogram base 6, height 4 → **24 cm²**.
→ Triangle base 6, height 4 → ½ × 6 × 4 = **12 cm²**.

	× 6
4	24

Total: 24

FIND THE AREA OF A TRIANGLE WITH BASE 8 CM AND HEIGHT 5 CM

1. Area of a triangle = ½ × **base × height**.
2. ½ × 8 × 5 = ½ × 40 = **20 cm²**.

HOW TO ANSWER TODAY

- **Triangle area.** Area = ½ × base × perpendicular height. The height must be at right angles to the base.
  Base 6 cm, height 4 cm → ½ × 6 × 4 = 12 cm²

WARM-UP

1. Saoirse is making a junk-model rocket from cereal boxes and cuts a triangular fin with a base of **6 cm** and a perpendicular height of **5 cm**. What is the area of the triangular fin?
   > A triangle has a base of 6 cm and a perpendicular height of 5 cm. What is its area?
2. Aoife cuts a triangular sandwich flag for the 5th class bake sale poster. The triangle has a base of **6 cm** and a perpendicular height of **6 cm**. What is the area of the flag?
   > A triangle has a base of 6 cm and a perpendicular height of 6 cm. What is its area?

PRACTICE

1. Cara is making a triangular bunting flag for the school's Seachtain na Gaeilge display. The flag has a base of **12 cm** and a perpendicular height of **5 cm**. What is the area of the flag?
   > A triangle has a base of 12 cm and a perpendicular height of 5 cm. What is its area?
2. Saoirse cuts triangular bunting flags to decorate the table for the 5th class Christmas hamper raffle. Each flag has a base of **10 cm** and a perpendicular height of **4 cm**. What is the area of one flag?
   > A triangle has a base of 10 cm and a perpendicular height of 4 cm. What is its area?

SPOT THE MISTAKE

Ella finds the area of a triangle with base 8 cm and height 5 cm:

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Area = base × height
Area = 8 × 5 = 40 cm²
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Find Ella's mistake. What is the correct area?