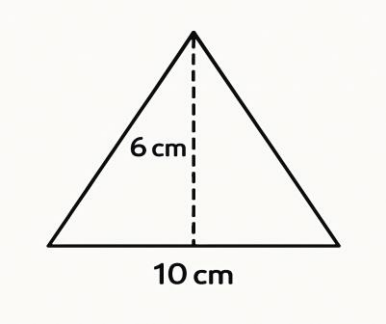
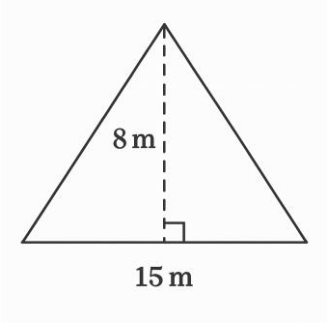
Maths with Melissa

Area of a Triangle Worksheet

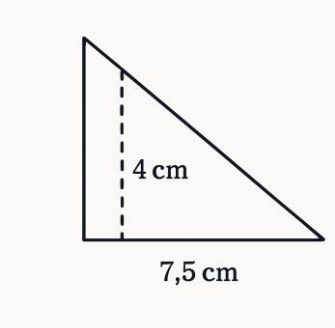
1. Find the area of a triangle with a base of 10 cm and a height of 6 cm.



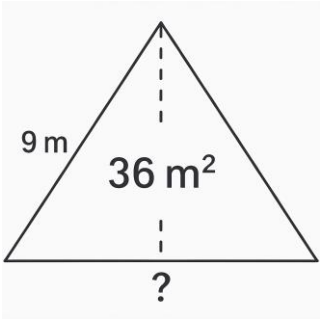
2. A triangle has a base of 15 m and a height of 8 m. What is its area?



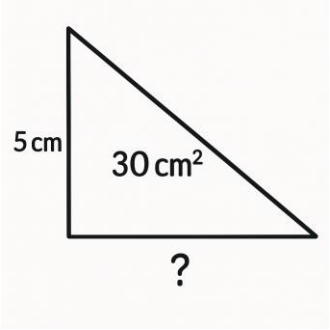
3. Calculate the area of a triangle where the base is 7.5 cm and the height is 4 cm.



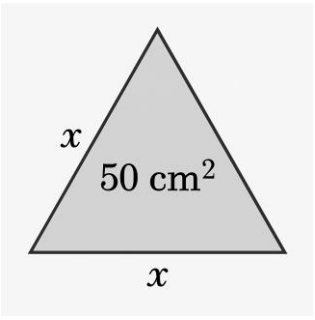
4. The height of a triangle is 9 m, and its area is 36 m^2. What is the length of its base?



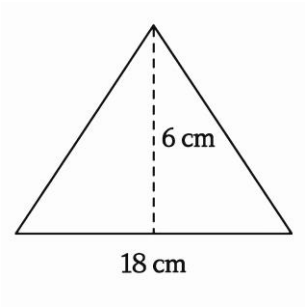
5. A triangle's area is 30 cm^2, and its height is 5 cm. What is the length of the base?



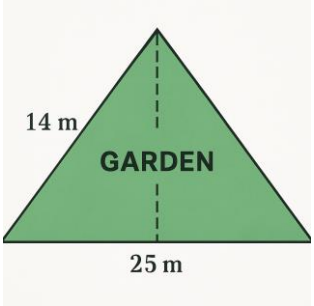
6. The base and height of a triangle are equal. If the area is 50 cm^2, what is the length of the base and the height?



7. A triangle has a base of 18 cm and a height that is one-third of the base. Find its area.



8. A triangular garden has a base of 25 m and a height of 14 m. What is the area of the garden?



Answer Key

1. Area = $\frac{1}{2} \times 10 \times 6 = 30$ cm²

2. Area = $\frac{1}{2} \times 15 \times 8 = 60$ m²

3. Area = $\frac{1}{2} \times 7.5 \times 4 = 15$ cm²

4. Base = $\frac{2 \times 36}{9} = 8$ m

5. Base = $\frac{2 \times 30}{5} = 12$ cm

6. Let base = height = x. $\frac{1}{2}x^2 = 50$, so $x^2 = 100$, $x = 10$ cm

7. Height = $\frac{1}{3} \times 18 = 6$ cm; Area = $\frac{1}{2} \times 18 \times 6 = 54$ cm²

8. Area = $\frac{1}{2} \times 25 \times 14 = 175$ m²