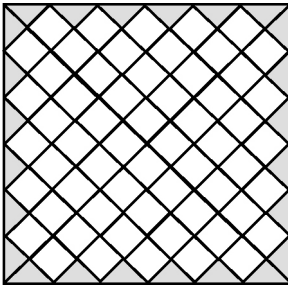
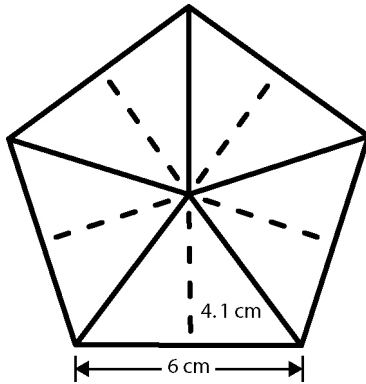


Chapter 3 Gifted and Enrichment Answers

1. There will be 60 four-sided playing spaces on the board.



- 2.



Area of one right triangle:

$$A = b \times h \div 2$$

$$A = 3 \times 4.1 \div 2$$

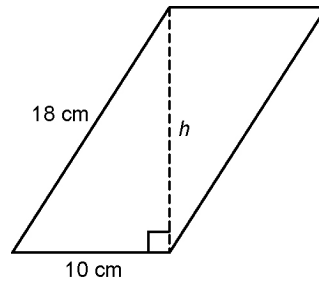
$$A = 6.15$$

Area of ten right triangles:

$$6.15 \times 10 = 61.5$$

The area of the five-sided figure is 61.5 cm².

- 3.



$$h^2 + 10^2 = 18^2$$

$$h^2 + 100 = 324$$

$$h^2 = 224$$

$$h \approx 14.97$$

Area of one triangle:

$$A = b \times h \div 2$$

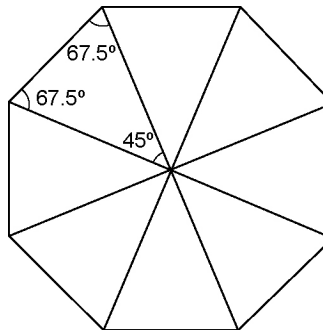
$$A = 10 \times 14.97 \div 2$$

$$A = 74.85$$

Area of two triangles: $74.85 \times 2 = 149.7$

The area of the parallelogram is approximately 149.7 cm².

- 4.



The interior angles of each triangle are 45° at the centre of the figure and 67.5° at each of the base angles.