

Year 5 Block 8 Unit: Perimeter and area

Key Vocabulary:

metre	kilometre	perimeter	length
width	rectangle	rectilinear	polygon

What will I know by the end of this unit?

Perimeter of rectangles:
How many ways can you find the perimeter?

10 cm
4 cm

$10\text{ cm} + 4\text{ cm} = 14\text{ cm}$
 $14\text{ cm} \times 2 = 28\text{ cm}$

Perimeter of rectilinear shapes:
Work out the perimeter of the rectilinear shape.

7 cm
3 cm
3 cm
5 cm
4 cm
8 cm

$7\text{ cm} + 3\text{ cm} + 3\text{ cm} + 5\text{ cm} + 4\text{ cm} + 8\text{ cm} = 30\text{ cm}$

Perimeter of polygons:
The perimeter of a regular pentagon is 90 cm. Work out the length of one side of the pentagon.

$P = 90\text{ cm}$
 $90 \div 5 = 18$
18 cm

90 cm
18 18 18 18 18

Area of rectangles:

3 cm
7 cm

$3 \times 7 = 21\text{ cm}^2$

Area of compound shapes:

6 cm
5 cm
A
B
2 cm
8 cm

A
 $6 \times 5 = 30\text{ cm}^2$

B
 $2 \times 8 = 16\text{ cm}^2$

$30\text{ cm}^2 + 16\text{ cm}^2 = 46\text{ cm}^2$

Estimate area:

1 cm
1 cm

3
2
1 4

Estimate the area of this shape.
 4 cm^2