Area and Perimeter

1a. The area of this shape is 47cm². Work out the missing length.
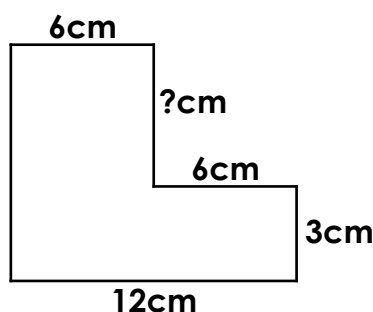
9cm
3cm
5cm
?cm
4cm
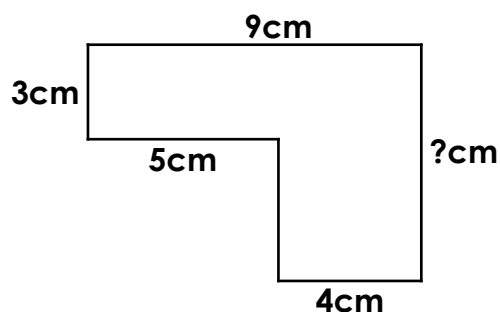
Not to scale   VF

1b. The area of this shape is 90cm². Work out the missing length.

6cm
?cm
6cm
3cm
12cm

Not to scale   VF

2a. Solve the word problem below.

A rectangle-shaped classroom measures 12ft by 4ft. What is the area of the classroom?
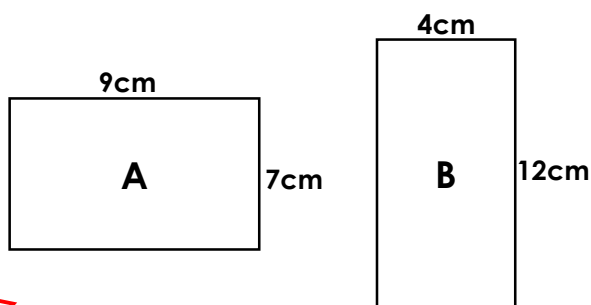
VF

2b. Solve the word problem.

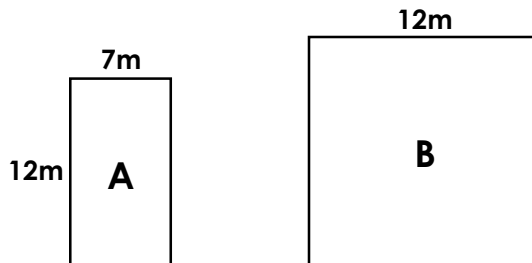A rectangle-shaped bedroom measures 12m by 8m. What is the area of the bedroom?

VF

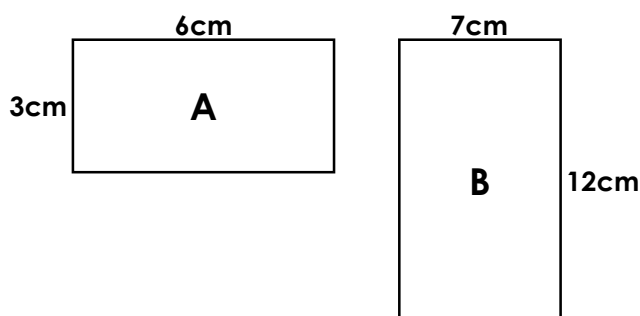**3a.** Calculate the area and the perimeter of the shapes below.

4cm
9cm
A
7cm
B
12cm

Not to scale   VF

3b. Calculate the area and the perimeter of the shapes below.

12m
7m
12m
A
B

Not to scale   VF

4a. Which shape has an area and a perimeter that equal the same number?

6cm
7cm
3cm
A
B
12cm

Not to scale   VF

4b. Which shape has an area and a perimeter that equal the same number?

6cm
4cm
8cm
A
B

Not to scale   VF

---

classroomsecrets.co.uk
Varied Fluency – Area and Perimeter – Year 6 Developing
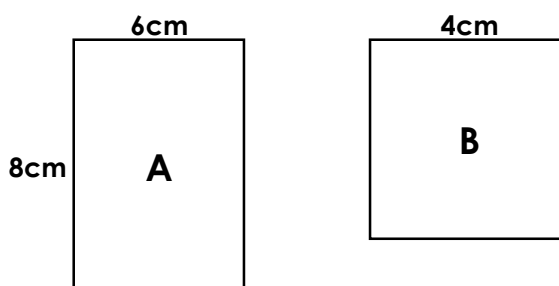
Area and Perimeter

5a. The area of this shape is 92cm². Work out the missing length.

6cm

?mm

4cm

14cm

Not to scale

VF
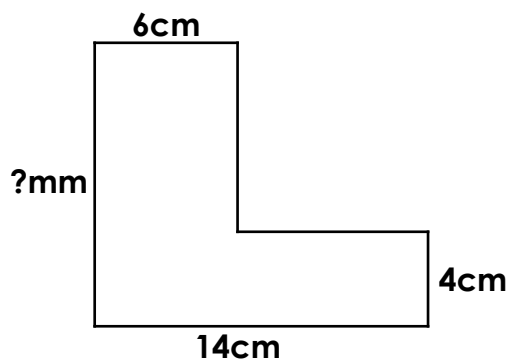
5b. The area of this shape is 114cm². Work out the missing length.

5cm

12cm

?cm

70mm
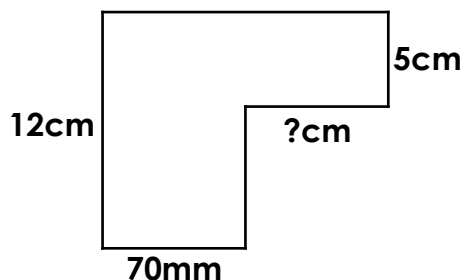
Not to scale

VF

6a. Solve the word problem below.

A garden measures 15ft by 24ft. What is the area of the garden?

Use the formula $a = w \times l$ to write your answer.
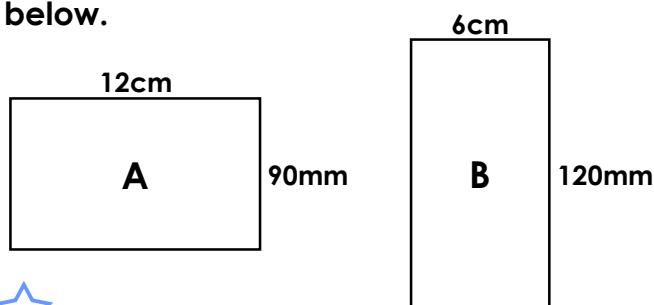
VF

6b. Solve the word problem.

A shop floor measures 23m by 19m. What is the area of the shop?

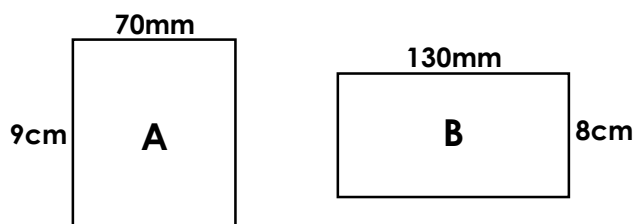Use the formula $a = w \times l$ to write your answer.

VF

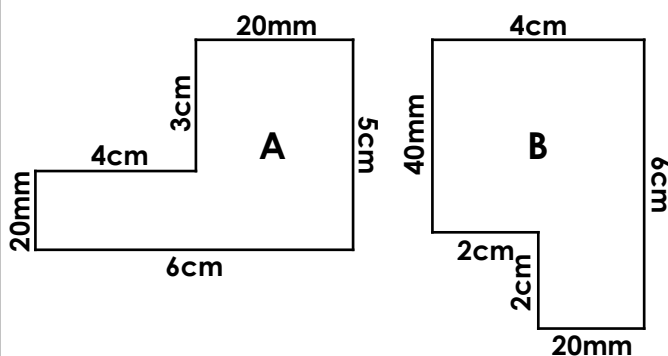### 7a. Using the correct formulae, calculate the area and the perimeter of the shapes below.

6cm

12cm

A

90mm

B

120mm

Not to scale

VF

7b. Using the correct formulae, calculate the area and the perimeter of the shapes below.

70mm

130mm

9cm

A

B

8cm

Not to scale

VF

8a. Which shape has an area and a perimeter that equal the same number?

20mm

3cm

A

5cm

4cm

4cm

40mm

B

6cm

20mm

6cm

2cm

2cm

20mm

Not to scale

VF

8b. Which shape has an area and a perimeter that equal the same number?

2cm

20mm

3cm

2cm

A

6cm

5cm

B

70mm

40mm

30mm

2cm

6cm

40mm

Not to scale

VF

---

classroomsecrets.co.uk

Varied Fluency – Area and Perimeter – Year 6 Expected
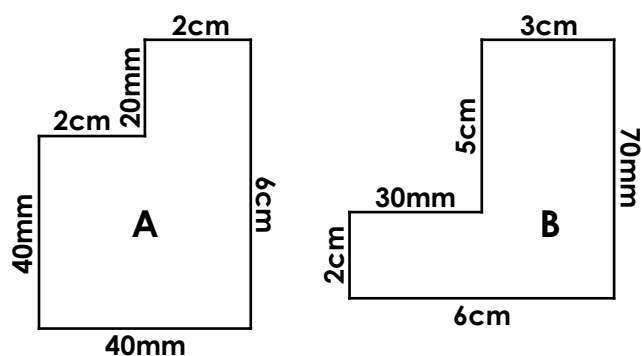
Area and Perimeter

9a. The area of this shape is 21m². Work out the missing length.

1.5m

?cm

1.5m

10.5m

Not to scale

VF
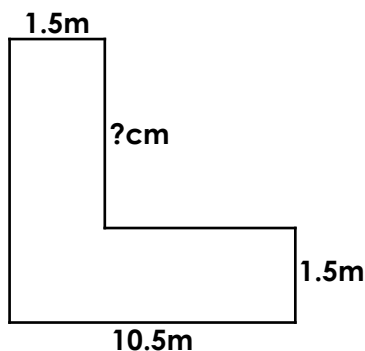
9b. The area of this shape is 2.4m². Work out the missing length.

0.8m

1.8m

?cm

1.6m
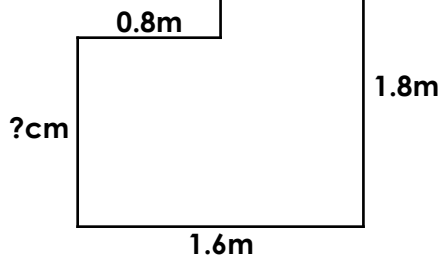
Not to scale

VF

10a. Solve the word problem below.

A garden measures 18m by 350cm. What is the area of the garden?

Use the formula $a = w \times l$ to write your answer.
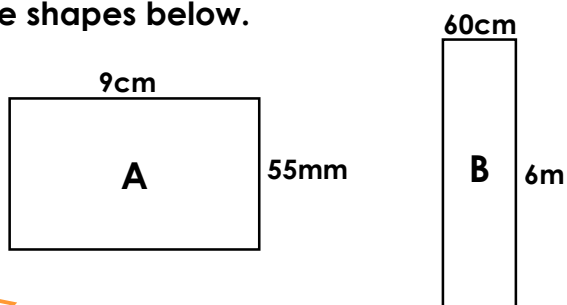
VF

10b. Solve the word problem.

A field measures 19m by 550cm. What is the area of the field?

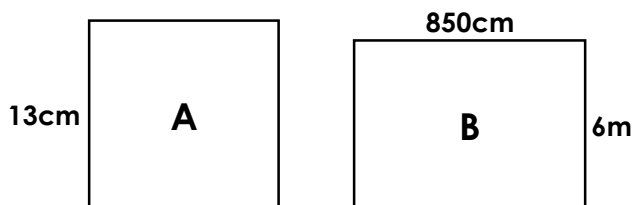Use the formula $a = w \times l$ to write your answer.

VF

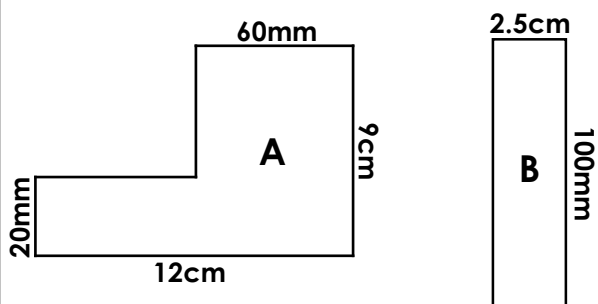**11a.** Using the correct formulae, calculate the area and the perimeter of the shapes below.

9cm

A

55mm

60cm

B

6m

Not to scale

VF

11b. Using the correct formulae, calculate the area and the perimeter of the shapes below.

13cm

A

850cm

B

6m

Not to scale

VF

12a. Which shape has an area and a perimeter that equal the same number?

60mm

A

9cm

20mm

12cm

2.5cm

B

100mm

Not to scale

VF

12b. Which shape has an area and a perimeter that equal the same number?

25mm

18cm

A

40mm

0.04m

B

6cm

0.02m

2cm

Not to scale

VF

classroomsecrets.co.uk