Challenge 1 — Length Perimeter Area
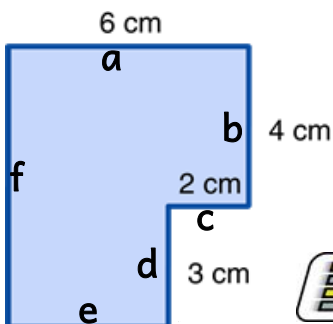
6 cm

a
b 4 cm
f
2 cm
c
d 3 cm
e

Length

What are the lengths of:

Side **e** = _____ cm

Side **f** = _____ cm

Pro-Bot
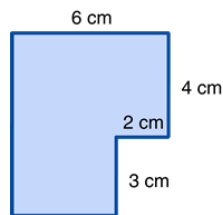
Programme the Pro-Bot to draw the shape on the left. (Use the given lengths)

Perimeter

The **perimeter** of this shape is:

_____ cm²

6 cm
4 cm
2 cm
3 cm

Area

The **area** of this shape is:

_____ cm²

6 cm
4 cm
2 cm
3 cm

Challenge 2 — Length Perimeter Area

a
b 8 cm
c
10cm
f
d 14 cm
e
8 cm

Length

What are the lengths of:

Side **a** = _____ cm

Side **f** = _____ cm

Pro-Bot

Programme the Pro-Bot to draw the shape on the left. (Use the given lengths)
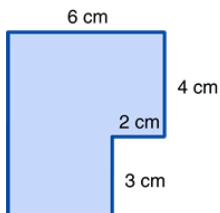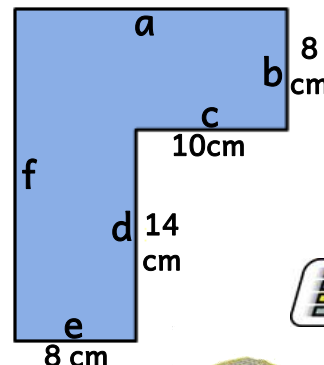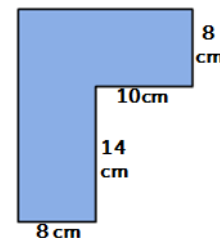
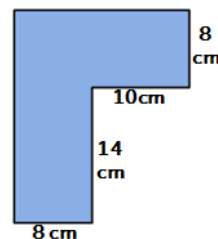### Perimeter

The **perimeter** of this shape is:

_____ cm

8 cm
10cm
14 cm
8 cm

Area

The **area** of this shape is:

_____ cm²

8 cm
10cm
14 cm
8 cm

12cm

a
h   b
g   c
4cm f d 4cm
e

Length

Sides c, e and g are equal.

What is their length?

_____ cm

Sides b and h are equal and they add up to 12 cm .

What is their length?

_____ cm

Pro-Bot

Programme the Pro-Bot to draw the above shape. (Use the given lengths)

Perimeter

The perimeter of this shape is _____ cm

Area

The area of this shape is:

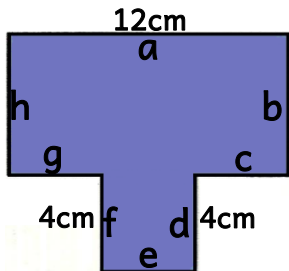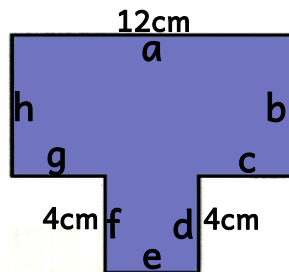_____ cm²

12cm

a
h   b
g   c
4cm f d 4cm
e

a b
10 cm
12 cm h   c
d 6 cm
e
g f

Length

Side a is half of side h.

Side a = _____ cm

Sides b and f are equal.

What is their length?

_____ cm

Perimeter

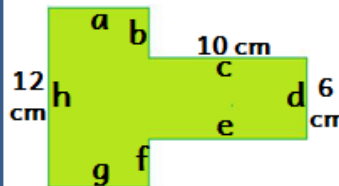The perimeter of this shape is _____ cm

Pro-Bot

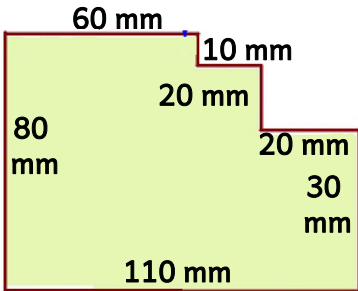Programme the Pro-Bot to draw the above shape. (Use the given lengths)

a b
10 cm
12 cm h   c
d 6 cm
e
g f

Area

The area of this shape is:

_____ cm²

Length

60 mm

10 mm

20 mm

80 mm

20 mm

30 mm

110 mm

How many cm are there in:

60 mm = _____ cm

10 mm = _____ cm

30mm = _____ cm

110 mm = _____ cm

Pro-Bot

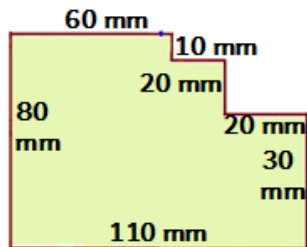Programme the Pro-Bot 🏎 to draw the above shape. (Use the given lengths)

Perimeter

The perimeter of this shape is _____ cm

Area

The area of this shape is: _____ cm²

60 mm

10 mm

20 mm

80 mm

20 mm

30 mm

110 mm

Angles

How many right angles can you see in this shape?

_____

3 cm

4 cm

3 cm

2 cm

5 cm

6 cm

9 cm

Perimeter

The perimeter of this shape is _____ cm

Pro-Bot

Programme the Pro-Bot 🏎 to draw the above shape. (Use the given lengths)

3 cm

4 cm

3 cm

2 cm

5 cm

6 cm

9 cm

Area

The area of this shape is: _____ cm²

Challenge 7 — Length Perimeter Area

15 cm
a
e
6 cm
8 cm h
f
d b
7 cm
g
c
6 cm

Length

What is the length of:

Side **c** = _____ cm

Pro-Bot

Programme the Pro-Bot

to draw the above shape. (Use the given lengths)
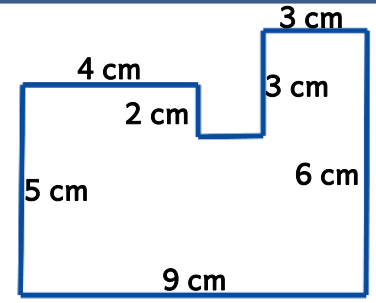
Perimeter

The perimeter of this shape

is _____ cm

15 cm
a
e
6 cm
8 cm h
f
d b
7 cm
g
c
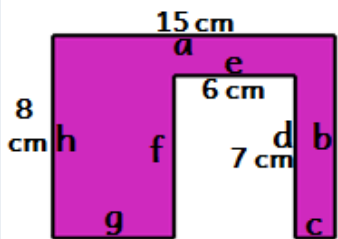
Area

The area of this shape is:

_____ cm²

Challenge 8 — Angles Perimeter Area

Angles

How many

right angles
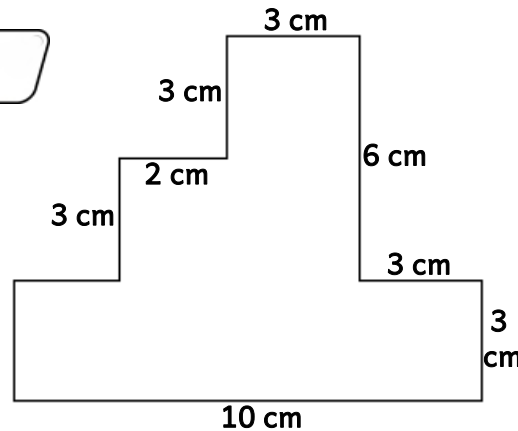
can you see in this

shape?

_____

3 cm
3 cm
2 cm
6 cm
3 cm
3 cm
3 cm
10 cm

Perimeter

The perimeter of this shape

is _____ cm

Pro-Bot

Programme the

Pro-Bot

to draw the

above shape.

(Use the given

lengths)

Area
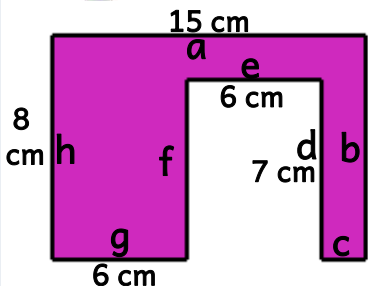
The area of this shape is:

_____ cm²

Length

What are the lengths of:

Side **g** = _____ cm

Side **h** = _____ cm

a   b 2 cm   12 cm   c
11 cm j   g   d 6 cm
h   2 cm f   e
i   6 cm
4 cm

Pro-Bot

Programme the Pro-Bot to draw the above shape. (Use the given lengths)

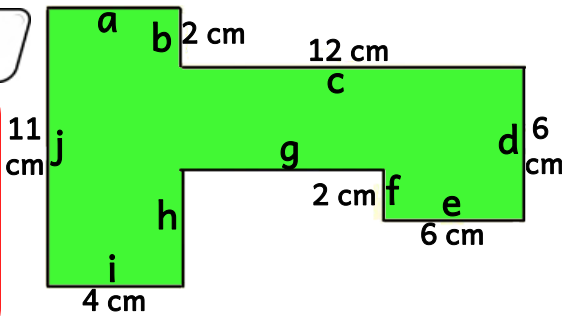## Perimeter

The perimeter of this shape is _____ cm

a   b 2 cm   12 cm   c
11 cm j   g   d
h   2 cm f   e
i   6 cm
4 cm

Area

The area of this shape is:

_____ cm²

Angles

How many right angles can you see in this shape?

_____

4 cm
8 cm
20 cm
8 cm
8 cm
4 cm

Perimeter

The perimeter of this shape is _____ cm

Pro-Bot

Programme the Pro-Bot to draw the above shape. (Use the given lengths)

Area

The area of this shape is:

_____ cm²