Length and perimeter

Name: _____

1 Complete the following metric conversions.
(a) 7 cm = mm
(b) 3 km = m
(c) 14 m = cm
(d) 8.4 m = cm

2 Complete the following metric conversions.
(a) 300 mm = cm
(b) 2000 m = km
(c) 150 mm = cm
(d) 480 cm = m

3 Complete the following metric conversions.
(a) 9.2 m = cm
(b) 56 000 mm = m
(c) 2.1 km = cm
(d) 6000 cm = km

4 Convert the following to the units indicated.
(a) 4.9 m to cm
(b) 1800 mm to cm
(c) 0.05 km to cm
(d) 5.8 m to mm

5 Express 9000 mm as:
(a) centimetres
(b) metres
(c) kilometres.

6 Arrange the following in descending order:
8500 cm, 12 000 mm, 0.4 m, 1.3 km, 4000 m.

7 Subtract the second length from the first, giving your answer in the smallest unit.
(a) 4.1 km and 3800 m

(b) 37 mm and 2 cm

(c) 140 m and 3570 cm

(d) 24.1 m and 7800 mm

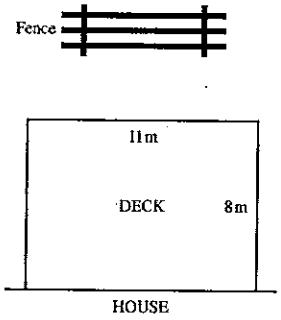
8 A Christmas tree is 2.06 m high. A star which is 55 mm is placed on top of the tree. Find the total height in centimetres.

9 The trunk of a tree has been cut up to make firewood. If there are 18 logs all measuring 57 cm in length, find the original height of the tree in metres.

10 On a pair of stilts, Harry the Clown is 3.2 m tall. How tall is Harry if the stilts are 85 cm high?

7 An equilateral triangle has a side length of 15 cm. Find the perimeter of the triangle.

8 Mike and Natalie are building a deck across the back of their house. The fence which will surround the deck will have three horizontal rails all the way around.



If the deck is 8 m wide and 11 m long, find the amount of wood needed to make the rails of the fence.

9 A square has a perimeter of 16.8 cm. Find the length of the sides.

10 List all of the possible dimensions (in whole numbers) for a rectangle with a perimeter of 24 m.

Length and perimeter

Name: Cameron Starkey-Gill

Good effort! check corrections!

1 Complete the following metric conversions.
(a) 7 cm = 70 mm ✓
(b) 3 km = 3000 m ✓
(c) 14 m = 1400 cm ✓
(d) 8.4 m = 840 cm ✓

2 Complete the following metric conversions.
(a) 300 mm = 30 cm ✓
(b) 2000 m = 2 km ✓
(c) 150 mm = 15 cm ✓
(d) 480 cm = 4.8 m ✓

3 Complete the following metric conversions.
(a) 9.2 m = 920 cm ✓
(b) 56 000 mm = 56m ✓
(c) 2.1 km = 2000 cm ✓
(d) 6000 cm = ~~0.6~~ km
0.06 km

4 Convert the following to the units indicated.
(a) 4.9 m to cm 490cm ✓
(b) 1800 mm to cm 180cm ✓
(c) 0.05 km to cm 500cm X 5000 cm
(d) 5.8 m to mm 5800mm ✓

5 Express 9000 mm as:
(a) centimetres 900cm ✓
(b) metres ~~90m~~ 9m ✓
(c) kilometres. 0.009km

6 Arrange the following in descending order:
~~8500 cm~~, 12 000 mm, ~~0.4~~ m, 1.3 km, ~~4000~~ m.
~~8500cm~~, 4000m, 1.3km, 8500cm, 12 000mm, ~~400~~ 0.4m

8500cm 1200cm 400cm 13000cm ~~40 000cm~~

7 Subtract the second length from the first, giving your answer in the smallest unit.
(a) 4.1 km and 3800 m
300m ✓
(b) 37 mm and 2 cm
17mm ✓
(c) 140 m and 3570 cm
10430cm ✓
(d) 24.1 m and 7800 mm
16300mm ✓

8 A Christmas tree is 2.06 m high. A star which is 55 mm is placed on top of the tree. Find the total height in centimetres.
2N 215cm X 2.15 mm = 211.5 cm

9 The trunk of a tree has been cut up to make firewood. If there are 18 logs all measuring 57 cm in length, find the original height of the tree in metres.
126m X
18 x 57 cm = 1026 cm
= 10.26 m.

10 On a pair of stilts, Harry the Clown is 3.2 m tall. How tall is Harry if the stilts are 85 cm high?
235cm ✓

Length and perimeter

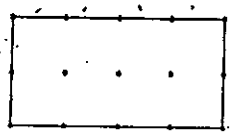
Name: _____

1 Write a definition of 'perimeter'.

The length (or distance) around an object or shape.

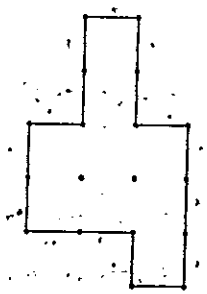
2 Find the perimeter of the shapes below.
(The dots are one centimetre apart.)

(a)



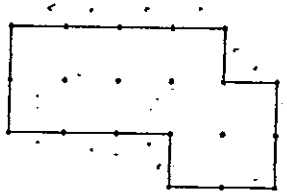
12 cm ✓

(b)



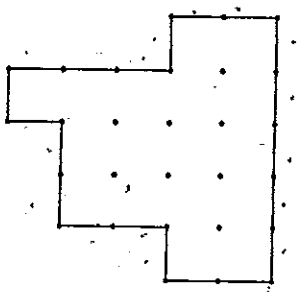
16cm ✓

(c)



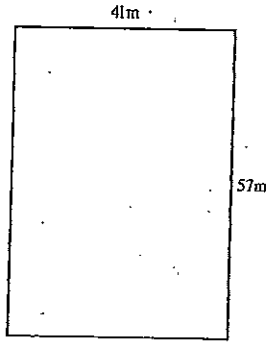
16cm ✓

(d)



20cm

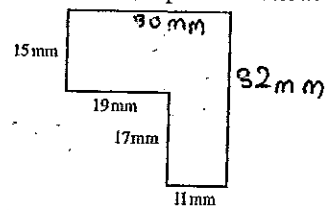
3 Find the perimeter of the shape shown below.



41+41+57+57 ✓

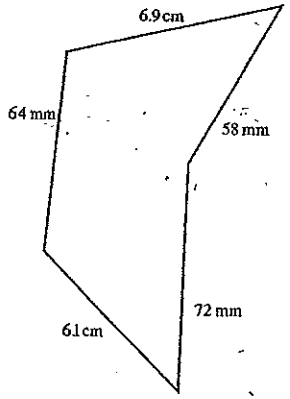
196m ✓

4 Find the perimeter of the shape shown below.



124mm ✓

5 Find the perimeter of the shape shown below and give your answer in centimetres.



32.4cm ✓

6 Find the perimeter of a rectangle with length 4.3 m and width 5.2 m.

19m ✓

7 An equilateral triangle has a side length of 15 cm. Find the perimeter of the triangle.

45cm ✓

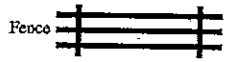
8 Mike and Natalie are building a deck across the back of their house. The fence which will surround the deck will have three horizontal rails all the way around.

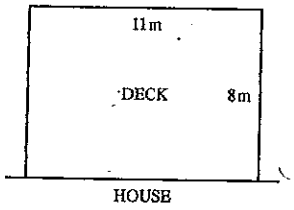
m. wide

$((11 \times 2) + (8 \times 2)) \times 3$ ~~$8 \times 2 \times 3$~~ ← 3 horizontal rails

$= 38$

$= 63\text{m} + 48$ $= 111\text{m}$





38m of wood needed

If the deck is 8 m wide and 11 m long, find the amount of wood needed to make the rails of the fence.

9 A square has a perimeter of 16.8 cm. Find the length of the sides.

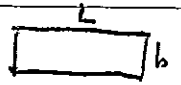
16.8×4

$= 67.2\text{cm}$ ✗

$\frac{16.8}{4}$

$= 4.2\text{cm}$

10 List all of the possible dimensions (in whole numbers) for a rectangle with a perimeter of 24 m.



~~$2L + 2b = 24$~~

$L + b = 12$

$L = 0$ $b = 12$

$L = 1$ $b = 11$

$L = 2$ $b = 10$

$L = 3$ $b = 9$

$L = 4$ $b = 8$

$L = 5$ $b = 7$ ✓

$L = 7$ $b = 5$

$L = 8$ $b = 4$

$L = 9$ $b = 3$ ✓

$L = 10$ $b = 2$

$L = 12$ $b = 0$