Year 7

Baldivis Secondary College

Mini Test 2 – Perimeter and Area

Calculator Allowed.

NAME: Answers

Score: ____ /28

Total time: 30mins

1. [4 marks: ½ each]
   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

   e) 9.2 m = 920 cm

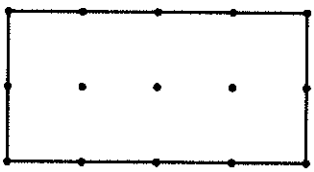
   f) 56 000 mm = 56 m

   g) 2.1 km = 210000 cm

   h) 6000 cm = 0·06 km

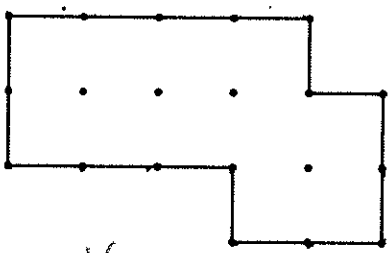
2. [5 marks: 1,1,1,2]
   Find the perimeter of the following shapes.
   (The distance between the dots is 1cm)

a)



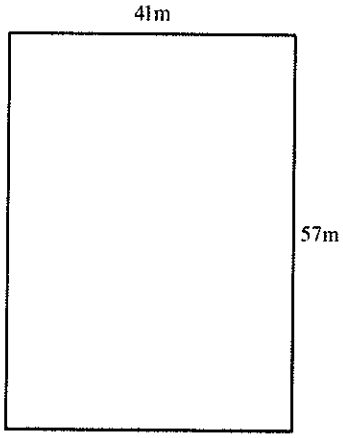
= 12cm ✓

b)



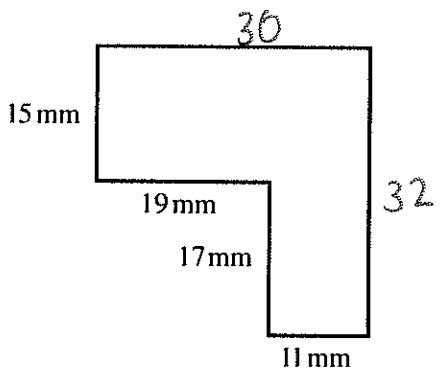
= 16cm ✓

c)



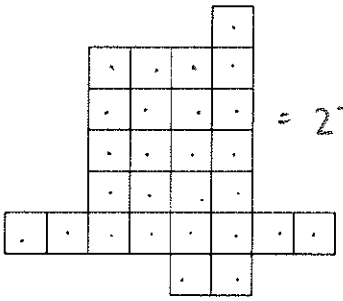
= 196m ✓

d)

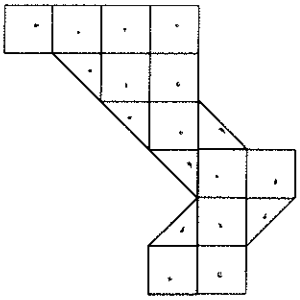


= 124mm ✓

3. [2 marks]
Find the area of the following shapes, if each square has an area of 1 cm^2



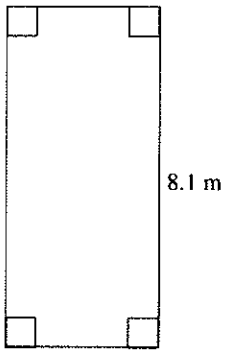
= 27cm^2 ✓



= 15cm^2 ✓

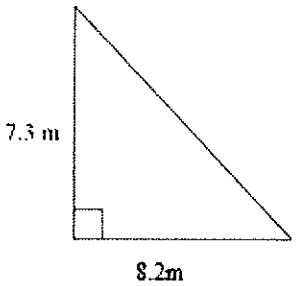
4. [11 marks: 2, 2, 2, 2, 3 marks]
Find the area of the following shape

a)



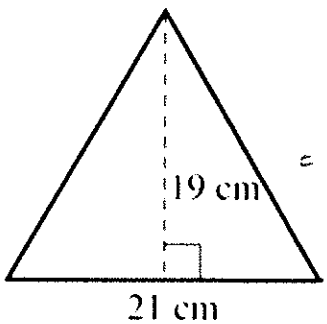
= 29.32m^2 ✓ ✓

b)



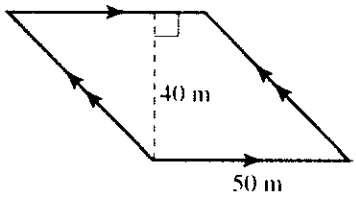
= 29.93m^2 ✓ ✓

c)



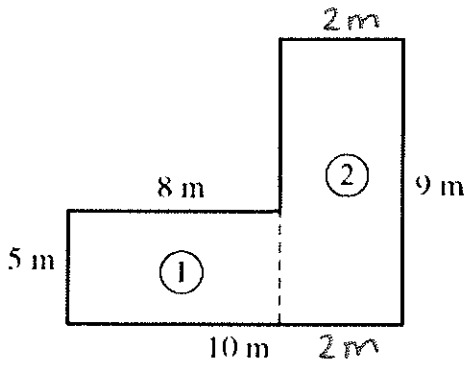
= 199.5cm^2 ✓ ✓

d)



= 2000m^2 ✓

e)



① = 40m^2 ✓

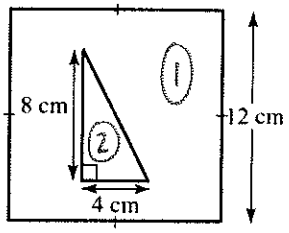
② = 18m^2 ✓

Total = 58m^2 ✓

5. [3 marks]

A triangle is cut out of a cardboard square.

Find the area of cardboard left using the figure below.



① = 144 cm²

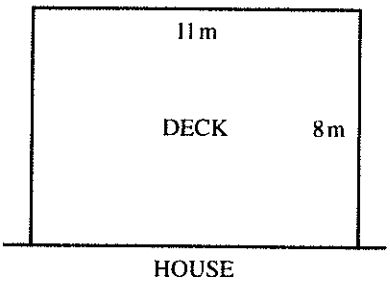
② = 16 cm²

144 − 16

= 128 cm²

6. [3 marks]

Rachel and Nathan are building a deck across the back of their house. A fence will surround the deck and have three horizontal rails all the way around.



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

Total length = 11 + 8 + 8 — 3 rails

= 27 m

27 × 3 = 81 m

END OF TEST