WORKSHEET 2 MEASUREMENT – CHAPTER 14

WHY DON'T TURKEYS GET INVITED TO DINNER PARTIES?

1 Convert these to the units indicated.
(a) 8 ha = ... m^2 (b) 75 000 m^2 = ... ha   (c) 5 km^2 = ... ha

2 Find the volume of a rectangular prism with dimensions: length 6m, breadth 5m and height 3m.

3 Convert these to the units indicated.
(a) 15L = ... mL   (b) 400 mL = ... L
(c) 20kL = ... L

4 Convert the following to the units indicated.
(a) 8500g = ..kg   (b) 7200kg = ...t
(c) 2L = ...cm^3 (d) 1m^3 = ...kL

5 The gross mass of the recycling bin containing rubbish is 26.7 kg. If the mass of the rubbish is 21.8 kg, what is the mass of the bin?

6 Name the months of the year, which have 30 days.

7 Convert these to the units indicated.
(a) 2 fortnight = ... days   (b) 1 leap year = ... days
(c) 3.5 centuries = ... years   (d) 5 millenia = ... years

8 Convert these to the units indicated.
(a) 2h = ... min   (b)72h = ... days
(c) 4.5 min = ... s   (d) 90 min = h

9 (a) How far does a car travel when it has speed of 76km/h for 2.5 hours?
(b) Jim can cover 180km in two and a half hours, what is his average speed?

10 How many small cubes with side 2 cm can be stacked inside a box with dimensions 6cm by 4cm by 8cm?

11 Don has a backyard garden, which is rectangular in shape and with dimensions 30 m by 24 m. He plans to construct a 1m wide footpath right around the garden. Find:
(a) the area of the garden
(b) the total area of the garden and the path
(c) hence the area of the path

12 A new housing estate has the measurements 2 km by 2km.
(a) How many hectares is this?
(b) If each block of land is approximately 25 m by 30 m (and allowing 50 ha for roads, parks, and open spaces), how many building blocks are there?

13 If the area of a triangle is 24 cm^2 , and the base is 8 cm, find the perpendicular height.

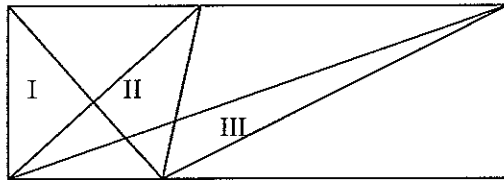14 The perimeter of a square is 60cm. Find the area of the square.

15 If the area of a square is 169cm^2, find its perimeter.

16 How many square linen serviettes of side 50 cm, may be cut from a roll of linen 25m long and 1m wide?

17 A roll of wall paper is 10 metres long and 50 cm wide. Find the area in m^2.

18 Lyndon plans to carpet his bedroom, 4m by 3.5m. If the carpet costs $125 per square metre, what will be the cost of carpeting the room?
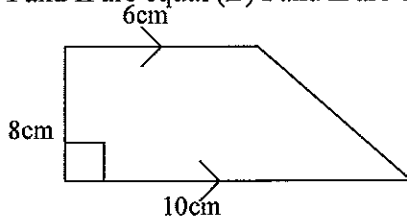
19

Consider the areas of the triangles I, II and III. Which is true?
(A) I and II are equal (B) I and II are equal (C) II and III are equal (D) all three are equal

20

Find the area of this trapezium.

Answers:

A	A	B	C	E	E	E	F
8.5kg 7.2t 2000cm^3 1kL	$1750	Apr. June Sept. Nov.	4.9	80000m^2 7.5ha 500ha	100	5m^2	52cm

G	G	H	L	L	N	O	S
90m^3	D	225cm^2	24	64cm^2	14 days 366 days 350 centuries 5000 years	400ha 467	720 832 112

T	U	W	Y
120 min 3 days 270s 1.5h	15000mL 0.4L 20000L	6cm	190 72

$\overline{6\ \ 16\ \ 5\ \ 18\ \ 3\ \ 11\ \ 1}$　$\overline{8\ \ 14\ \ 17\ 9}$　$\overline{3\ \ 11\ \ 17}$　$\overline{15\ \ 12\ \ 13\ \ 20}$

$\overline{10\ 4\ \ 7\ \ 19\ \ 3\ \ 4\ \ 2\ \ 1}$