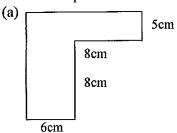
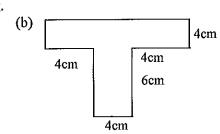
## **WORKSHEET 1 MEASUREMENT – CHAPTER 14**

## WHAT IS BLACK AND WHITE AND GOES ROUND AND ROUND?



- 1 Which unit of length would be best to use to measure
- (a) length of a soup spoon
- (b) height of Sydney Tower
- (c) Ballina to Tweed Heads.
- 2 Convert these measurements to the units indicated.
- (a) 2cm = ... mm
- (b) 4.9m = ... cm
- (c) 42km = ... m
- 3 Convert these measurements to the units indicated.
- (a) 70mm = cm
- (b) 3350m = km
- (c) 6400 mm = m
- 4 A circular athletics track is 400 metres, how many laps must the competitors run to complete the 5km race?
- 5 Which unit of mass would be best to use to find the mass of:
- (a) an egg
- (b) bag of pool salt
- (c) semi trailer
- 6 Convert these measurements to the units indicated
- (a)  $6000 \text{ mg} = \dots \text{ g}$
- (b) 2750 g = .... kg
- (c)  $3650 \text{ kg} = \dots \text{ t}$
- 7 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?
- 8 Change to 24 hour time.
- (a) 3.30 a.m.
- (b) 8.45 p.m.
- 9 Change to analogue time
- (a) 2330
- (b) 0500
- 10 If Auckland (NZ) is (+12) hours of Greenwich Mean Time; Sydney (+10), Adelaide (+9.5), Perth (+8). What is the time in the other cities if it is 11 a.m. in Adelaide?
- 11 (a) Calculate the speed if the distance is 120 km and the time is 1.5 hours.
- (b) Calculate the distance if the speed is 70 km/h and the time is 3.5 hours.
- (c) Calculate the time taken if the speed is 80 km/h and the distance is 200 km.
- 12 Con operated a tour around Sydney. In the morning the bus travelled 20 km for 2 hours. It then took 30 minutes break for lunch. In the afternoon it travelled 22 km in 90 minutes. Find its average speed.
- 13 Find the perimeter of the following.





- 14 A jogger runs along a track, which is 1 metre inside the fence of a square field with sides 120 metres. How far did he run?
- 15 Given that each rectangular card has dimensions 3cm by 4 cm, find the perimeter if we place 4 of these cards
- (a) end on end
- (b) side by side
- (c) to form one large rectangle
- 16 Find the area of these shapes in Question 13.
- 17 Convert these to the units indicated.
- (a)  $5 \text{ cm}^2 = \dots \text{ mm}^2$
- (b)  $4000 \text{ mm}^2 = \dots \text{ cm}^2$
- (c)  $30\ 000\ \text{mm}^2 = \dots\ \text{m}^2$
- 18 How many 10cm by 10cm tiles are required to cover the bathroom floor whose dimensions are 3m by 3.5m?
- 19 Find the total surface area of the rectangular prism, given the dimensions: 6cm by 8cm by 12cm. (Hint: draw a net).
- 20 A coffee mug holds 275 mL. How many cups can be made from 1.65L?
- 21 Which is the best unit of capacity for finding the amount of water in a:
- (a) teaspoon
- (b) bucket
- (c) dam
- 22 The dimensions of a rectangle is length 10m by breadth 8 m. If we increase the length by 10% and decrease the breadth by 10%, then
- A both the area and perimeter remain unchanged
- B the area is unchanged and the perimeter increased
- C the area is unchanged and the perimeter decreased
- D the perimeter is unchanged and the area increased
- E the perimeter is increased and the area decreased.

## Answers:

A	A	A	С	D	E	G	G	H	I
cm	4.9 kg	6	118	Au 1.30pm	6g	38	mL	7cm	80
m		cups	72	Syd 11.30am	2.75kg	32	L	3.35km	245
km				Perth 9.30am	3.65t	28	kL or ML	6.4m	2.5

I	L	N	N	N	0	0	P	R	T
432	472m	1050	20mm	Е	12.5	11.30pm 5am	g	12	54 44
			490cm 42000m			Jain	kg t		44

U	V
0330	500mm <sup>2</sup>
2045	40cm <sup>2</sup>
	0.03m <sup>2</sup>

1	5	6	18	15	8	19	22	16	7	8	21	3	13	11	2	20
12		17	0 1	A 1	7	11	10 15	10	0		12	_				