Grade 8 measurement test

NAME	DATE	SCORE / 8

Answer each question. Show your work.

1 A car travels at 20 metres per second. What is this speed in kilometres per hour?

2 The volume of a cylinder with radius 4 and height 7 is ☒π cubic units. What number goes in the box?

3 Maya measures the length of a table and gets 75 cm, to the nearest centimetre. The true length is L cm. Which inequality shows every value L could have?

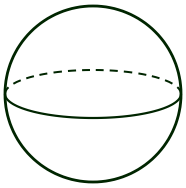
- ◯ $74.5 \le L < 75.5$
- ◯ $75 \le L < 76$
- ◯ $74.5 \le L < 75$
- ◯ $74 \le L < 76$

4 A town has 3,200 people living on 16 square kilometres of land. What is the population density of the town?

- ◯ 200 people per square kilometre
- ◯ 200 square kilometres per person
- ◯ 0.005 people per square kilometre

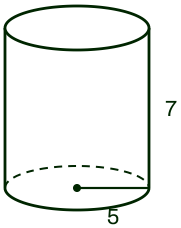
5 A toy rocket is a cylinder with a cone on top. Both parts have a radius of 3 centimetres. The cylinder is 8 centimetres tall and the cone is 6 centimetres tall. The volume of the rocket is ☒π cubic centimetres. What number goes in the box?

6 A ball has a radius of 6 centimetres. Use 3.14 for π. What is the volume, in cubic centimetres, of the ball?



7 A pyramid has a rectangular base 3 metres by 5 metres. The height of the pyramid is 3 metres. What is the volume, in cubic metres, of the pyramid?

8 The cylinder below is measured in centimetres. Its total surface area is ☒π square centimetres. What number goes in the box?



Grade 8 measurement test

1	72	2	112	3	$74.5 \leq L < 75.5$
4	200 people per square kilometre	5	90	6	904.32
7	15	8	120		