



Year 8 Mathematics Measurement Practice Test 1

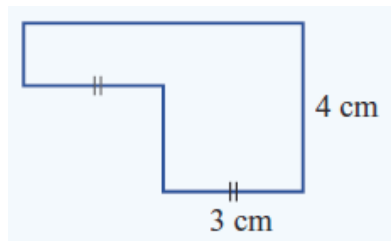
Name _____

1 Convert these lengths to the units shown in brackets

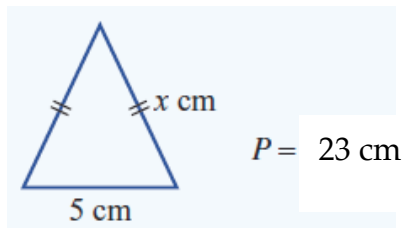
a) 4.7 cm (mm)

b) 75 000 cm (km)

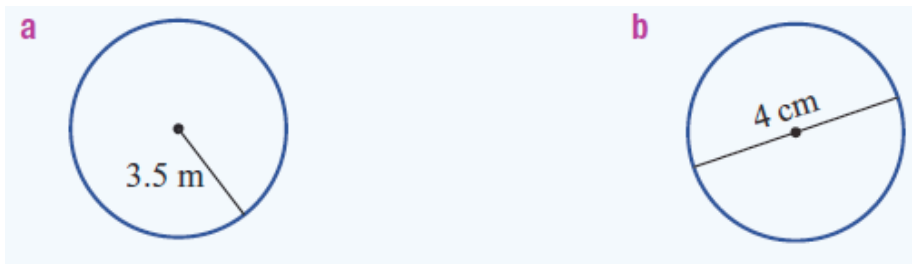
2 Find the perimeter of



3 Find the unknown value x in this triangle if the perimeter is 23 cm.



4 Find the circumference of these circles correct to 2 decimal places.

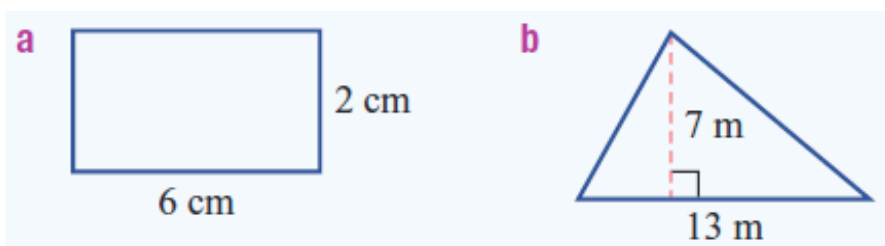


5 Convert these area measurements to the units shown in the brackets.

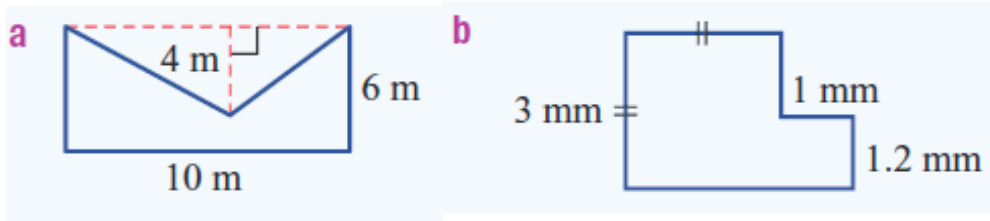
a) 0.248 m^2 (cm^2)

b) 3100 mm^2 (cm^2)

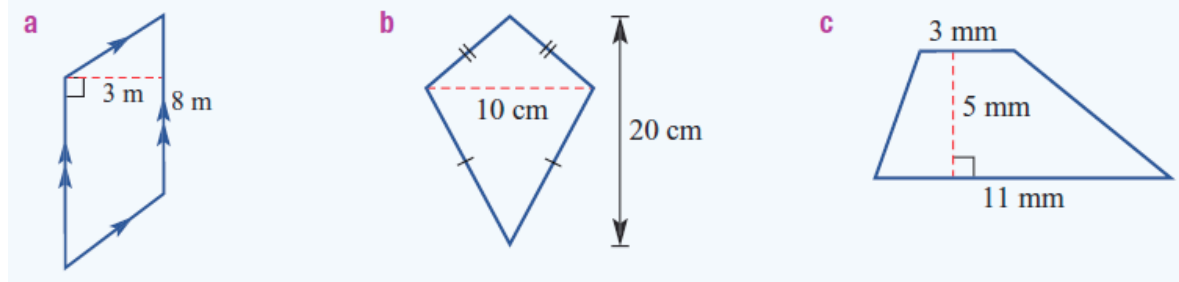
6 Find the area of these shapes



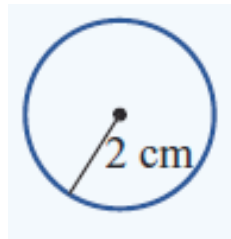
7 Find the area of these shapes by addition or subtraction



8 Find the area of these shapes.



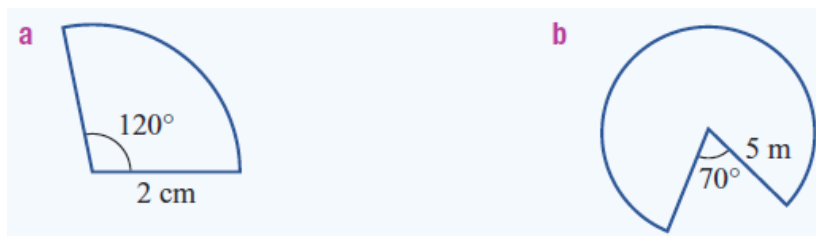
9 Find the area of this circle to 1 decimal place



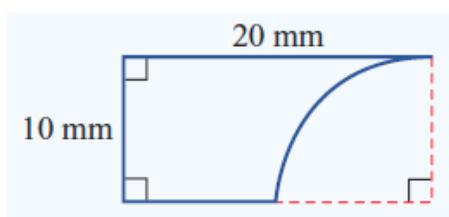
10 Find the area of this quadrant and semi circle to 2 decimal places



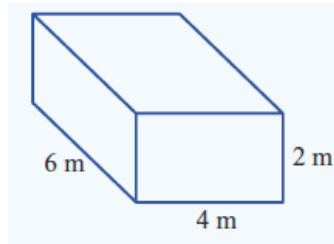
11 Find the area of these sectors correct to 2 decimal places



12 Find the area of this composite shape correct to 1 decimal place

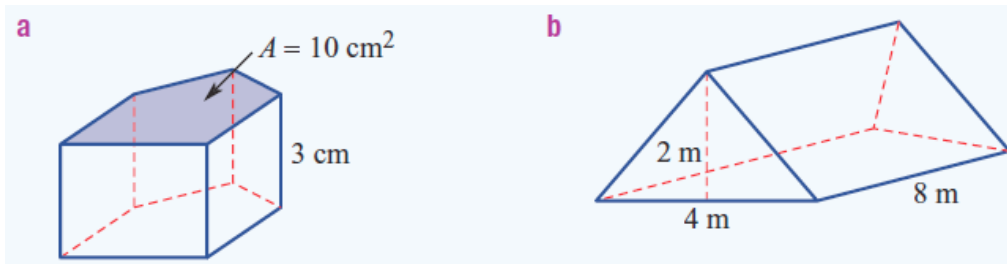


13 Find the volume of this rectangular prism



14 Find the capacity, in litres, for a container that is a rectangular prism 20 cm long, 10 cm wide and 15 cm high.

15 Find the volume of these prisms



16 Find the volume of these cylinders rounding to 2 decimal places



17 Convert these times to the units shown in brackets.

a) 3 days (minutes)

b) 30 months (years)

18 Write these times using the system given in brackets.

a) 4:30 p.m. (24-hour time)

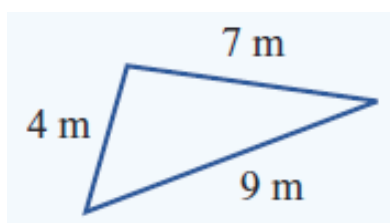
b) 1945 (a.m./p.m.)

19 Decide if the following are Pythagorean triads

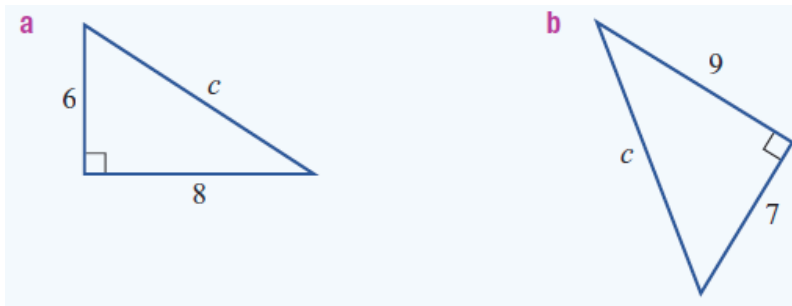
a) 6, 8, 10

b) 4, 5, 9

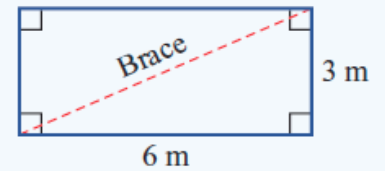
20 Decide if this triangle has a right angle



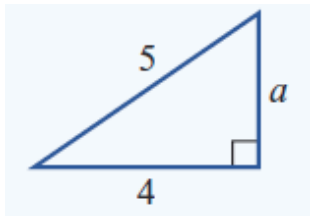
- 21 Find the length of the hypotenuse for these right-angled triangles. Round the answer for part **b** to 1 decimal places



- 22 A rectangular wall is to be strengthened by a diagonal brace. The wall is 6 m wide and 3 m high. Find the length of brace required correct to the nearest cm.



- 23 Find the value of a in this right-angled triangle.



- 24 A 10 m steel brace holds up a concrete wall. The bottom of the brace is 5 m from the base of the wall. Find the height of the concrete wall correct to 2 decimal places.

