

Numeracy Year 9 – Week 3: Measurement; Chance and Data

STUDENT WORKSHEET

Focus of the week

Shortcuts for perimeters and areas of familiar 2D shapes

Question 1

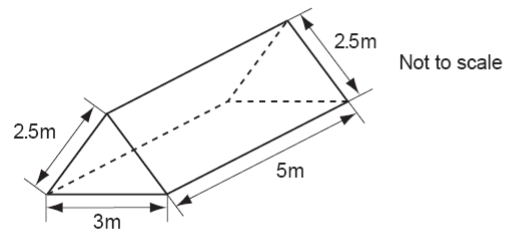
The diameter of a circular table top is 2.6 metres.

What is its circumference to the nearest metre?

- 4m 5m 8m 16m
-

Question 2

This solid triangular prism needs all its faces painted.
The area of each triangular face is 3 m^2 .

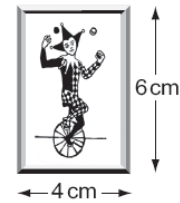


Write your answer
in the box.

What is the **total** area to be painted? m^2

Question 3

Lyn uses a photocopier to enlarge this picture.



Shade one
bubble.

The enlarged picture is 3 times as long and 3 times as wide as the original.

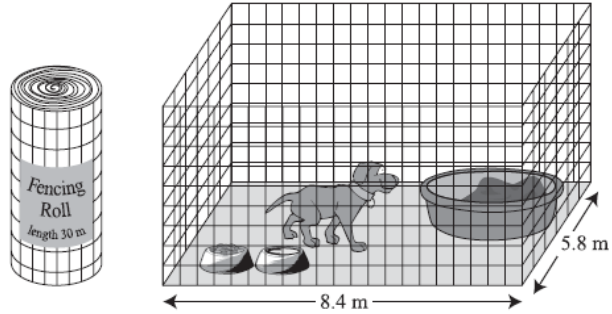
The area of the enlarged picture is

- 3 times the area of the original.
- 6 times the area of the original.
- 9 times the area of the original.
- 24 times the area of the original.

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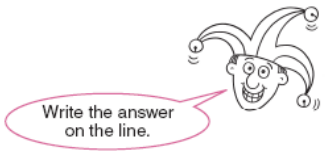
STUDENT WORKSHEET

Challenge Question



What is the area of the floor of the dog pen?
Give your answer to the **nearest square metre**.

_____ square metres



Another rectangular dog pen is to be built.
Only one 30-metre roll of fencing may be used.
The area of the floor of the dog pen must be **greater** than 52 square metres.
Find a possible length and width for the pen.

Length = _____ metres Width = _____ metres