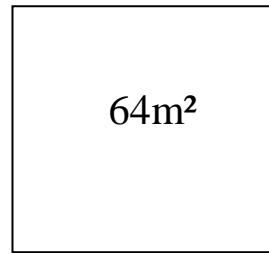
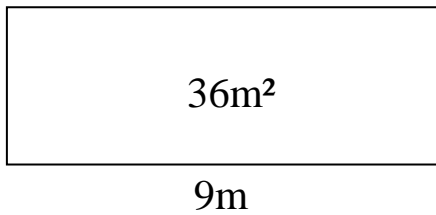


Transformation

- Q. 1 A square has an area of 64m^2 .
What is its side length?

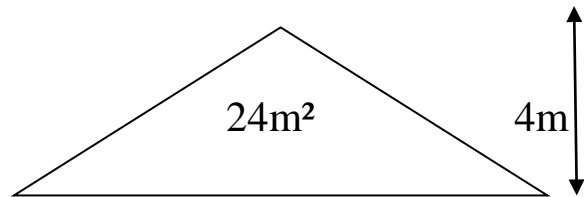


- Q. 2

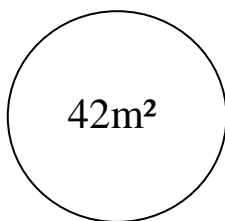


- A rectangle has an area of 36m^2 and one side length of 9m . What is the length of the unknown side?

- Q. 3 A triangle has an area of 24m^2 and a perpendicular height of 4m .
What is the length of its base?

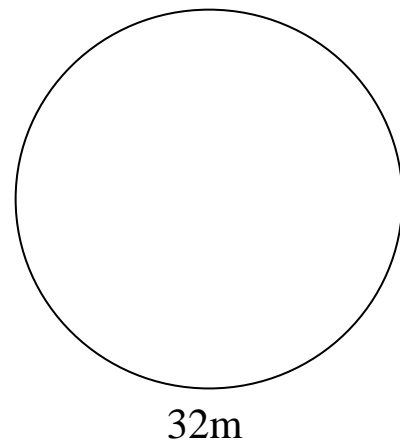


- Q. 4



- A circle has an area of 42m^2 .
(i) What is its radius?
(ii) What is its circumference?

- Q. 5 A circle has a circumference of 32m .
(i) What is its radius?
(ii) What is its area?



Transformation (Answers)

Q. 1 Length x Length = Area
 X * X = 64
 X² = 64
 X = √64
 X = 8m

Q. 2 Length x Width = Area
 9 * X = 36
 X = $\frac{36}{9}$
 X = 4m

Q. 3 $\frac{1}{2}$ (Base x \perp Height) = Area
 $\frac{1}{2}$ (X * 4) = 24
 X * 4 = 24 * 2
 X * 4 = 48
 X = $\frac{48}{4}$
 X = 12m

Q. 4 π * radius² = Area
 π * radius² = 42
 radius² = $\frac{42}{\pi}$
 radius² = 13.369
 radius = √13.369
 radius = 3.656m

 circumference = $2\pi r$
 = 2 * π * 3.656
 = 22.971m

Q. 5 Circumference = $2\pi r$
 32 = 2 * π * radius
 $\frac{32}{2 * \pi}$ = radius
 5.093m = radius

 π * radius² = Area
 π * 5.093² = Area
 81.489m² = Area