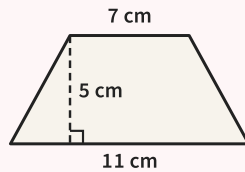




Have your formulae sheet in front of you. Find the formula you need, copy it from the sheet, then use it.

I do

Find the area of the trapezium.



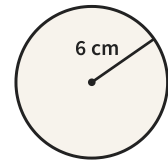
From your sheet _____

Substitute _____

Answer _____

We do

Find the area of the circle.
Give your answer to 1 decimal place.



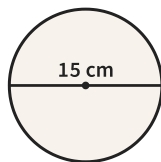
From your sheet $\text{Area} = \pi r^2$ _____

Substitute _____

Answer _____

1

Find the circumference of the circle. Give your answer to 1 decimal place.



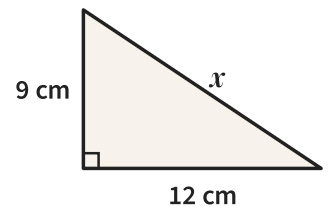
From your sheet _____

Substitute _____

Answer _____

2

Find the length x .



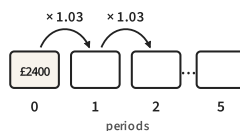
From your sheet _____

Substitute _____

Answer _____

3

Ravi invests £2400 at 3% compound interest per year. Find the total in the account after 5 years.

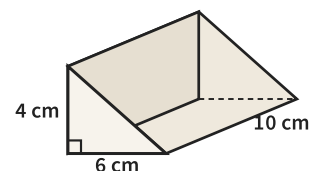


From your sheet _____

Answer _____

4

Find the volume of the triangular prism.

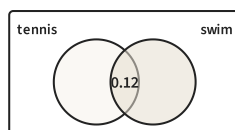


From your sheet _____

Answer _____

5

At a sports club, $P(\text{tennis}) = 0.45$, $P(\text{swim}) = 0.3$ and $P(\text{tennis and swim}) = 0.12$. Find $P(\text{tennis or swim})$.

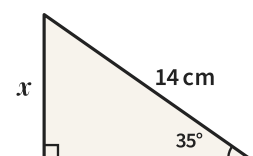


From your sheet _____

Answer _____

6

Find the length x .
Give your answer to 1 decimal place.



From your sheet _____

Answer _____

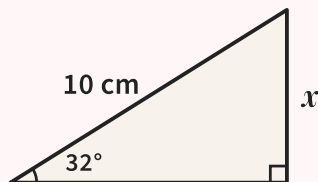
2 Read the letters *Foundation*



Find the formula on your formulae sheet. Match its letters to the lengths, angles and amounts in the question.

I do

Find x to 1 decimal place.
Use the letters from your sheet.



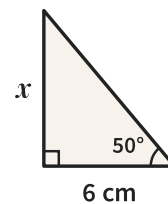
$a =$ _____ $b =$ _____ $c =$ _____

From your sheet _____

Answer _____

We do

Find x to 1 decimal place.



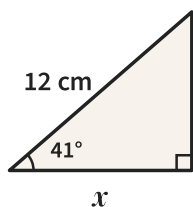
$a = x$ _____ $b = 6$ _____ $c =$ not given _____

From your sheet _____

Answer _____

1

Find x to 1 decimal place.



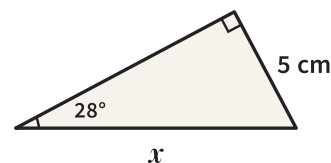
$a =$ _____ $b =$ _____ $c =$ _____

From your sheet _____

Answer _____

2

Find x to 1 decimal place.



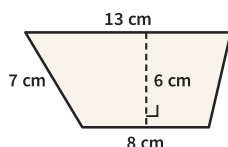
$a =$ _____ $b =$ _____ $c =$ _____

From your sheet _____

Answer _____

3

Find the area of the trapezium.
Which length is h ?



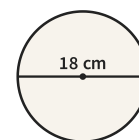
From your sheet _____

$a =$ _____ $b =$ _____ $h =$ _____

Answer _____

4

Find the area of the circle to 1 decimal place.



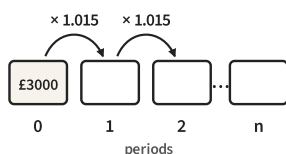
From your sheet _____

$d =$ _____ $r =$ _____

Answer _____

5

£3000 earns 1.5% compound interest every 6 months.
Find the total after 3 years.



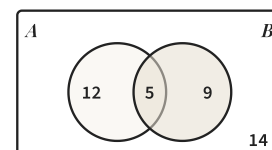
From your sheet _____

$P =$ _____ $r =$ _____ $n =$ _____

Answer _____

6

The Venn diagram shows 40 people. Find $P(A \text{ or } B)$.



From your sheet _____

$P(A) =$ _____ $P(B) =$ _____ $P(A \text{ and } B) =$ _____

Answer _____

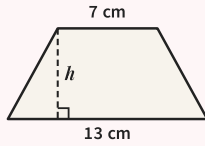
3 Turn it round *Foundation*



Find the formula on your formulae sheet, substitute what you know, then rearrange to find the letter you need.

I do

The area of the trapezium is 60 cm^2 . Find the height h .



From your sheet _____

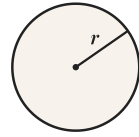
Substitute _____

Rearrange _____

Answer _____

We do

A circle has an area of 50 cm^2 . Find its radius to 1 decimal place.



From your sheet $\text{Area} = \pi r^2$ _____

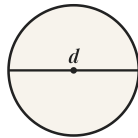
Substitute _____

Rearrange _____

Answer _____

1

A circle has a circumference of 40 cm. Find its diameter to 1 decimal place.



From your sheet _____

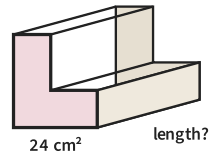
Substitute _____

Rearrange _____

Answer _____

2

A prism has a volume of 360 cm^3 . Its cross section has an area of 24 cm^2 . Find its length.



From your sheet _____

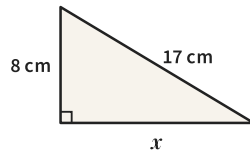
Substitute _____

Rearrange _____

Answer _____

3

Find the length x .



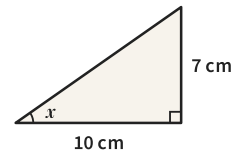
From your sheet _____

Substitute _____

Answer _____

4

Find angle x to 1 decimal place.



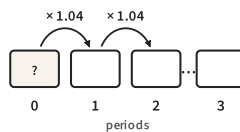
From your sheet _____

Substitute _____

Answer _____

5

Mia invested some money at 4% compound interest per year. After 3 years she has £2249.73. How much did she invest?

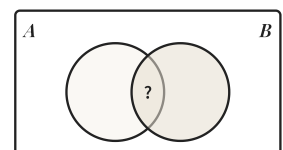


From your sheet _____

Answer _____

6

$P(A \text{ or } B) = 0.7$, $P(A) = 0.5$ and $P(B) = 0.4$. Find $P(A \text{ and } B)$.



From your sheet _____

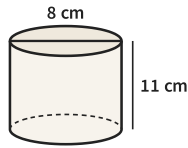
Answer _____



Use your formulae sheet for every question. Some questions need two formulae from it.

1

A tin is a cylinder with diameter 8 cm and height 11 cm. Find its volume to 1 decimal place.

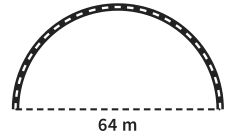


From your sheet _____

Answer _____

2

The bend of a running track is a semicircle with diameter 64 m. How long is the bend?

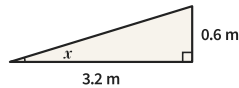


From your sheet _____

Answer _____

3

A ramp rises 0.6 m over a horizontal distance of 3.2 m. Find the angle x it makes with the ground.

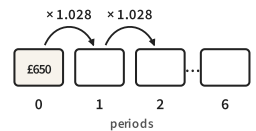


From your sheet _____

Answer _____

4

Leah puts £650 in a savings account paying 2.8% compound interest per year. How much interest does she earn in 6 years?

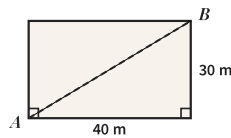


From your sheet _____

Answer _____

5

A field is 40 m by 30 m. How much shorter is it to walk straight from A to B than to walk along two edges?

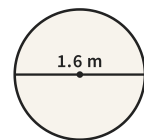


From your sheet _____

Answer _____

6

A round rug has a diameter of 1.6 m. Find its area to 2 decimal places.

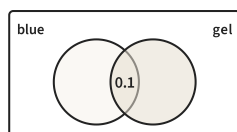


From your sheet _____

Answer _____

7

A pen is picked from a box at random. $P(\text{blue}) = 0.3$, $P(\text{gel}) = 0.45$, $P(\text{blue gel}) = 0.1$. Find $P(\text{blue or gel})$.

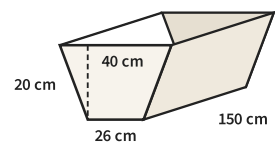


From your sheet _____

Answer _____

8

A water trough is a prism. How many litres does it hold when full? $1000 \text{ cm}^3 = 1 \text{ litre}$



From your sheet _____

Answer _____