A calculator is permitted throughout this exercise.

Ex 10.1

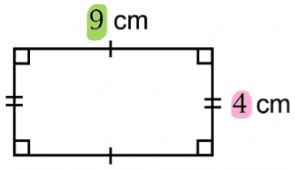
Worked Example for Simple Questions

Name:

The area of a rectangle is given by:

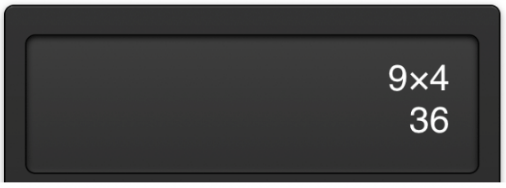
$$A = l \times w$$

Calculate the area of the rectangle.



Area = l x w
= 9 x 4
= 36 cm²

Area = 36 cm^2



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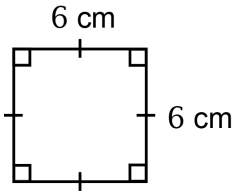
Area of Squares and Rectangles

Question 1

The area of a rectangle is given by:

$$A = l \times w$$

Calculate the area of the rectangle.



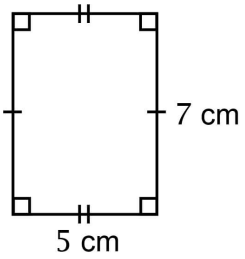
Area = ☐ cm^2

Question 2

The area of a rectangle is given by:

$$A = l \times w$$

Calculate the area of the rectangle.



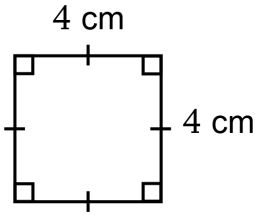
Area = ☐ cm^2

Question 3

The area of a rectangle is given by:

$$A = l \times w$$

Calculate the area of the rectangle.



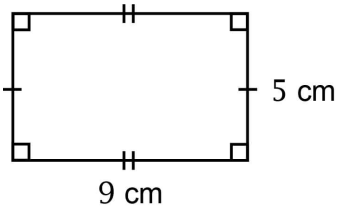
Area = ☐ cm^2

Question 4

The area of a rectangle is given by:

$$A = l \times w$$

Calculate the area of the rectangle.



Area = ☐ cm^2

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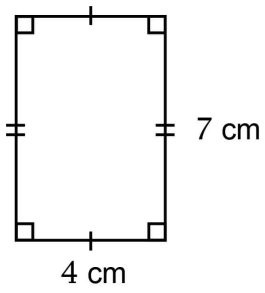
Area of Squares and Rectangles

Question 5

The area of a rectangle is given by:

$$A = l \times w$$

Calculate the area of the rectangle.



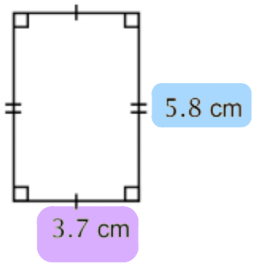
Area = $\square$ cm^2

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Worked Example for Standard Questions

Calculate the area of the rectangle.

Give your answer correct to 1 decimal place.



$l = 3.7$ cm, $w = 5.8$ cm

$A = l \times w$

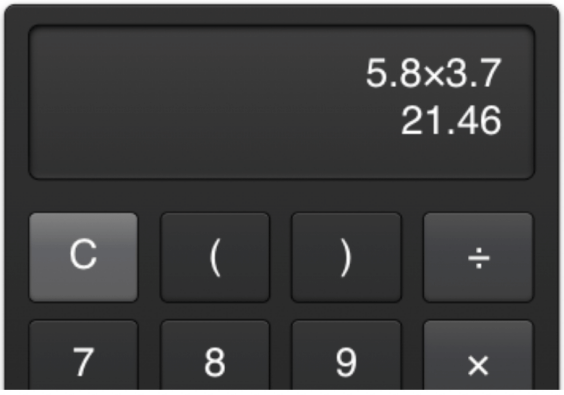
$= 3.7 \times 5.8$

$= 21.46$ round up

$= 21.5$ cm^2

Area = 21.5 cm^2

Check



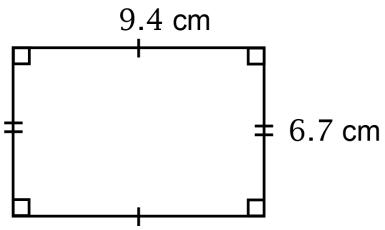
Copyright © Maths Pathway 2025.

Area of Squares and Rectangles

Question 6

Calculate the area of the rectangle.

Give your answer correct to 1 *decimal place.*

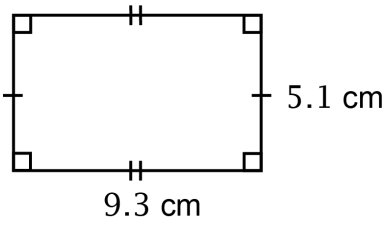


Area = $\square$ cm^2

Question 7

Calculate the area of the rectangle.

Give your answer correct to 1 *decimal place.*

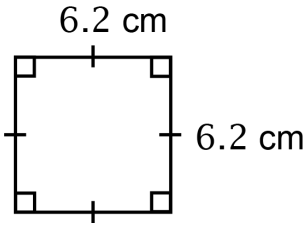


Area = $\square$ cm^2

Question 8

Calculate the area of the rectangle.

Give your answer correct to 1 *decimal place.*

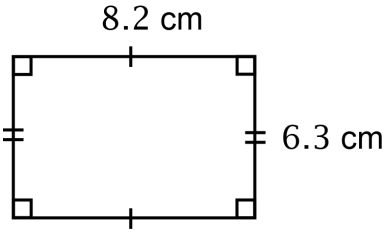


Area = $\square$ cm^2

Question 9

Calculate the area of the rectangle.

Give your answer correct to 1 *decimal place.*



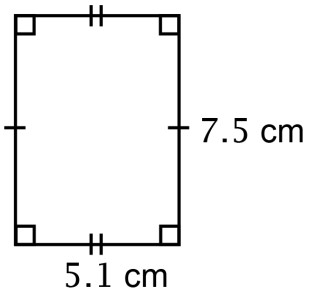
Area = $\square$ cm^2

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Question 10

Calculate the area of the rectangle.

Give your answer correct to 1 *decimal place.*



Area = $\square$ cm^2

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Ex 10.3

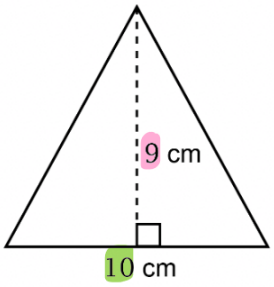
A scientific calculator is permitted throughout this exercise.

Worked Example for Simple Questions

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

Calculate the area of the triangle.



Area $= \frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 10 \times 9$

$= 45 \text{ cm}^2$

Area $= 45 \text{ m}^2$



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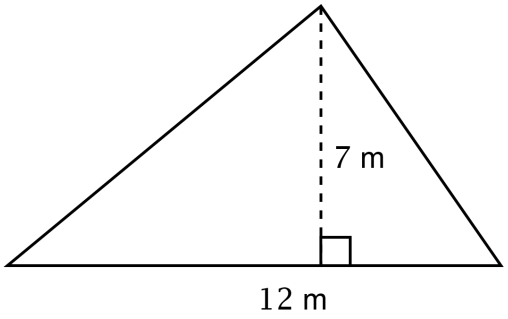
Area of Triangles

Question 1

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

Calculate the area of the triangle.



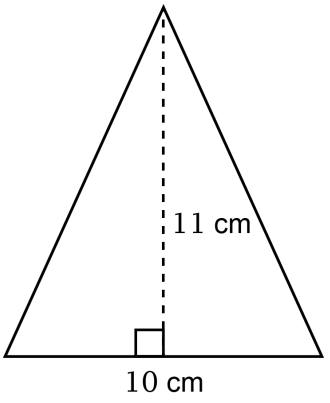
Area = $\square$ m^2

Question 2

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

Calculate the area of the triangle.



Area = $\square$ cm^2

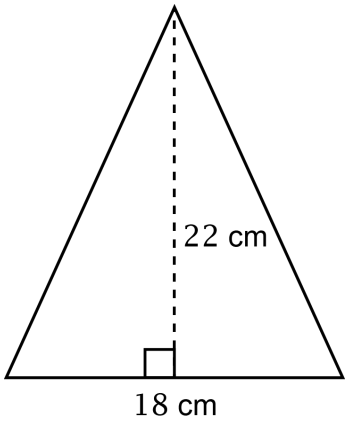
Copyright © Maths Pathway 2025.

Question 3

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

Calculate the area of the triangle.



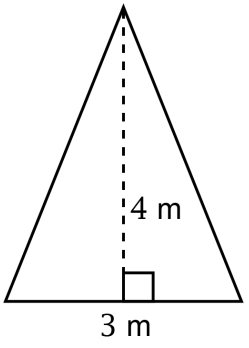
Area = $\square$ cm^2

Question 4

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

Calculate the area of the triangle.



Area = $\square$ m^2

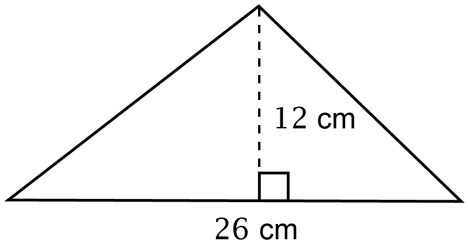
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Question 5

The area of a triangle is given by:

$$A = \frac{1}{2} \times b \times h$$

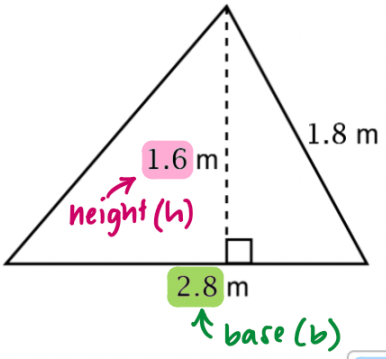
Calculate the area of the triangle.



Area = $\square$ cm^2

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Worked Example for Standard Questions

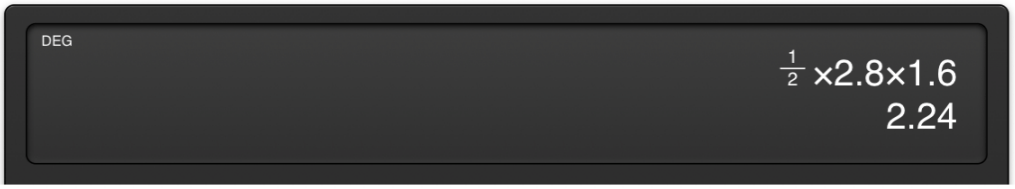


$\text{Area} = \frac{1}{2} \times b \times h$

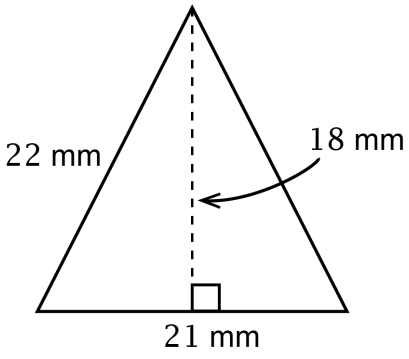
$= \frac{1}{2} \times 2.8 \times 1.6$

$= 2.24 \text{ m}^2$

The **area** of the triangle is 2.24 m^2.

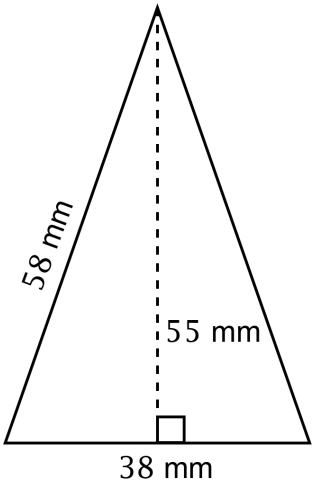


Question 6



The **area** of the triangle is ____ mm^2.

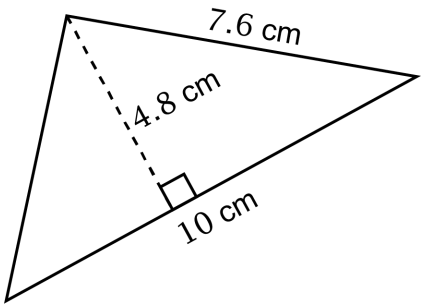
Question 7



The **area** of the triangle is ____ mm^2.

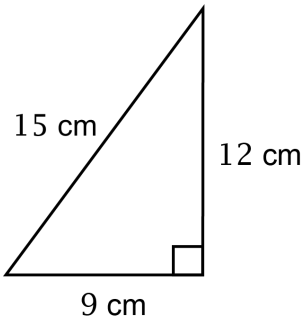
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Question 8



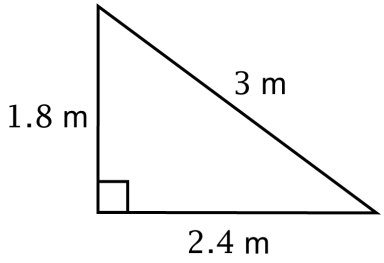
The **area** of the triangle is ☐ cm^2.

Question 9



The **area** of the triangle is ☐ cm^2.

Question 10



The **area** of the triangle is ☐ m^2.

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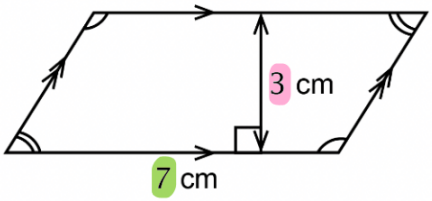
Ex 10.5

A calculator is permitted throughout this exercise.

Worked Example for Simple Questions

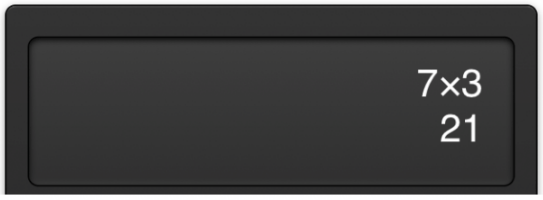
The area of a parallelogram is given by:
$$A = b \times h$$

Calculate the area of the parallelogram.



Area = b × h
= 7 × 3
= 21 cm²

Area = 21 cm^2



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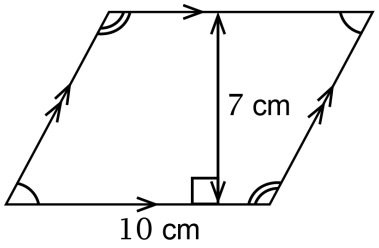
Area of Parallelograms

Question 1

The area of a parallelogram is given by:

$$A = b \times h$$

Calculate the area of the parallelogram.



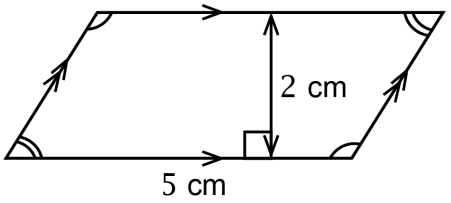
Area = $\square$ cm^2

Question 2

The area of a parallelogram is given by:

$$A = b \times h$$

Calculate the area of the parallelogram.



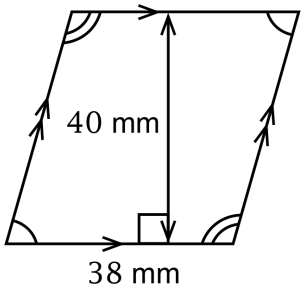
Area = $\square$ cm^2

Question 3

The area of a parallelogram is given by:

$$A = b \times h$$

Calculate the area of the parallelogram.



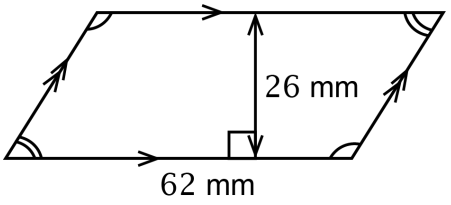
Area = $\square$ mm^2

Question 4

The area of a parallelogram is given by:

$$A = b \times h$$

Calculate the area of the parallelogram.



Area = $\square$ mm^2

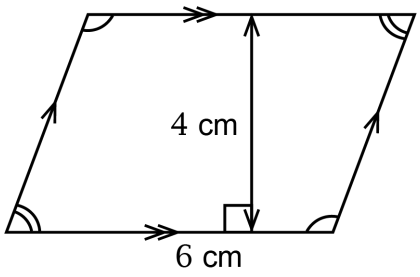
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Question 5

The area of a parallelogram is given by:

$$A = b \times h$$

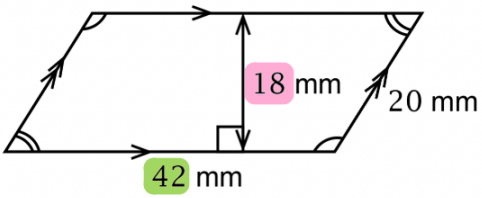
Calculate the area of the parallelogram.



Area = $\square$ cm^2

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Worked Example for Standard Questions



The area of the parallelogram is 756 mm^2

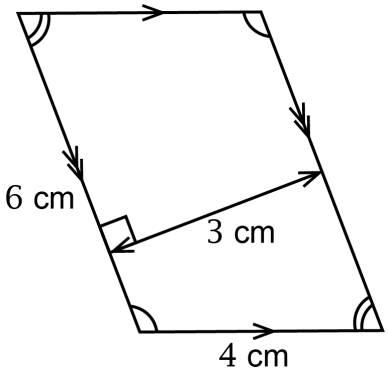
Area = base × height
= 42 × 18
= 756 mm^2

Check

42×18
756

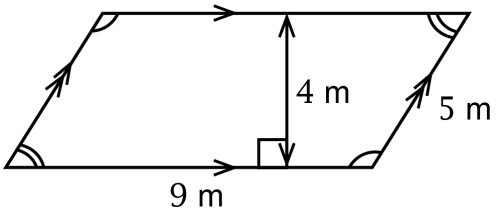
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Question 6



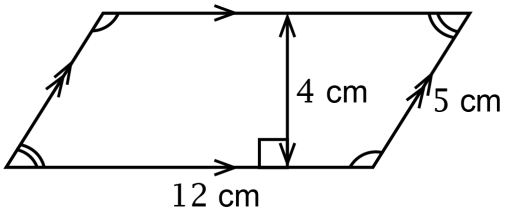
The area of the parallelogram is $\square$ cm^2

Question 7



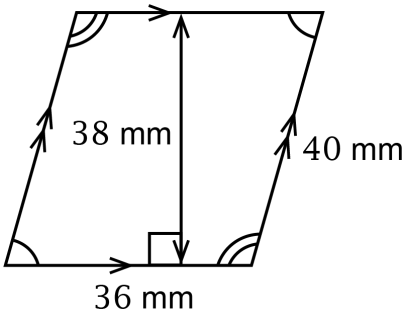
The area of the parallelogram is $\square$ m^2

Question 8



The area of the parallelogram is $\square$ cm^2

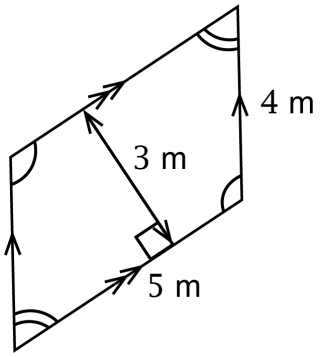
Question 9



The area of the parallelogram is $\square$ mm^2

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Question 10



The area of the parallelogram is $\square$ m^2

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Ex 10.7

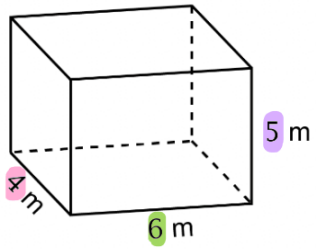
A calculator is permitted throughout this exercise.

Worked Example for Simple Questions

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.

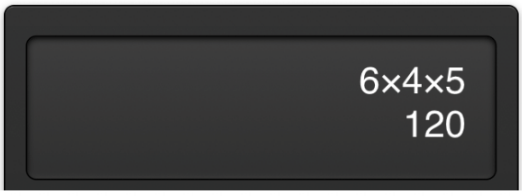


$V = l \times w \times h$

$= 6 \times 4 \times 5$

$= 120 \text{ cm}^3$

$V =$ 120 cm^3



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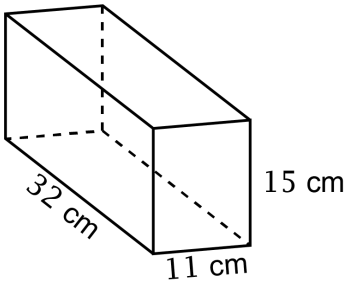
Volume of Rectangular Prisms

Question 1

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.



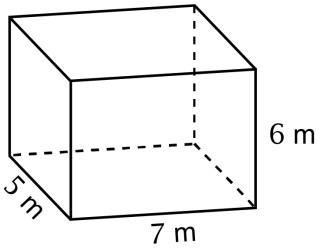
V = $\square$ cm^3

Question 2

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.



V = $\square$ m^3

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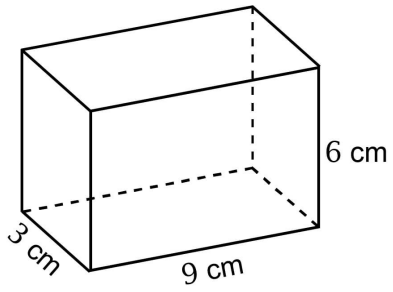
Volume of Rectangular Prisms

Question 3

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.



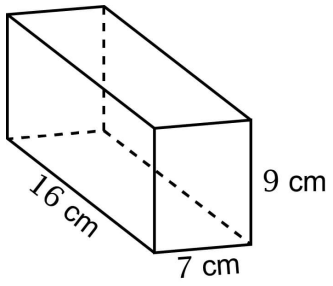
V = $\square$ cm^3

Question 4

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.



V = $\square$ cm^3

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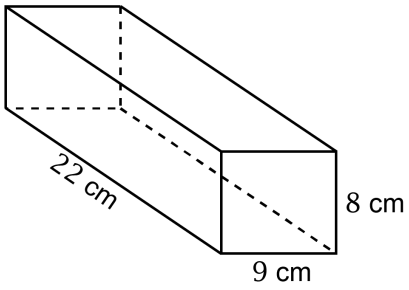
Volume of Rectangular Prisms

Question 5

The volume of a rectangular prism is given by:

$$V = l \times w \times h$$

Calculate the volume of the rectangular prism.

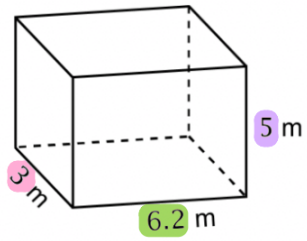


V = $\square$ cm^3

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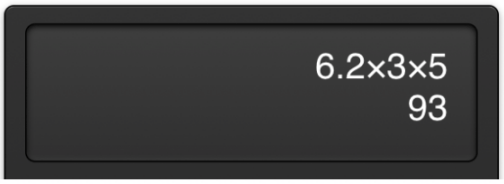
Worked Example for Standard Questions

What is the volume of the rectangular prism?



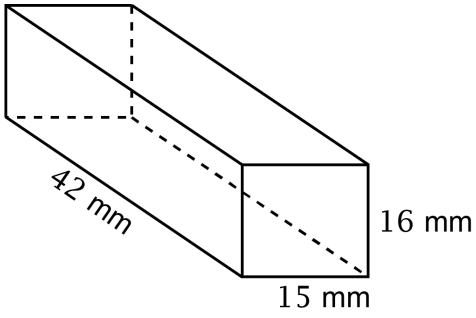
Volume = L x W x h
= 6.2 x 3 x 5
= 93 m^3

Volume = 93 m^3



Question 6

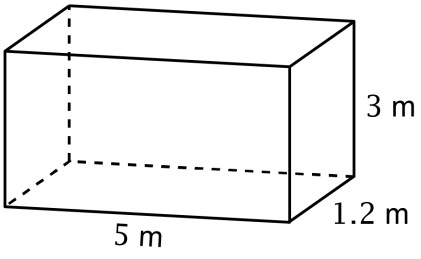
What is the volume of the rectangular prism?



Volume = ____ mm^3

Question 7

What is the volume of the rectangular prism?



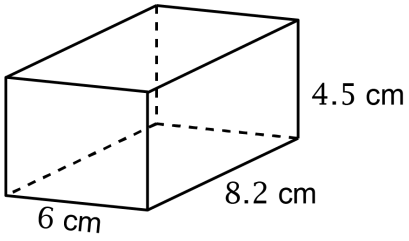
Volume = ____ m^3

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Volume of Rectangular Prisms

Question 8

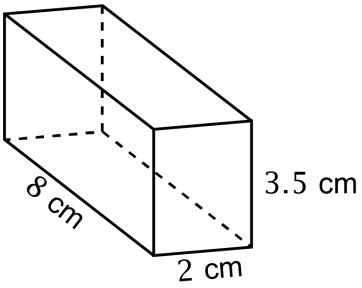
What is the volume of the rectangular prism?



Volume = $\square$ cm^3

Question 9

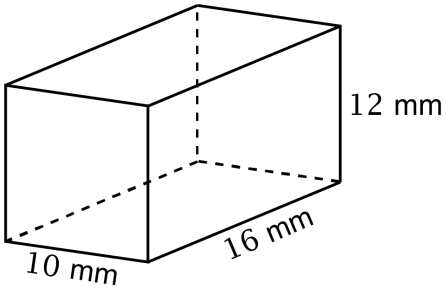
What is the volume of the rectangular prism?



Volume = $\square$ cm^3

Question 10

What is the volume of the rectangular prism?



Volume = $\square$ mm^3

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Ex 10.9

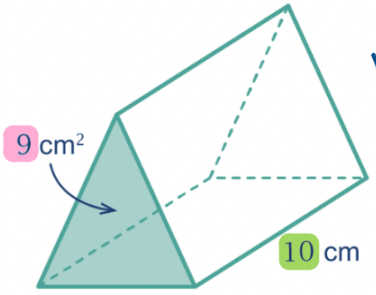
A scientific calculator is permitted throughout this exercise.

Worked Example for Simple Questions

The volume of a triangular prism is given by:

Volume = area of triangle × depth

Calculate the **volume** of this triangular prism.



Volume = area of triangle x depth
= 9 x 10
= 90 cm³

Volume = 90 cm^3



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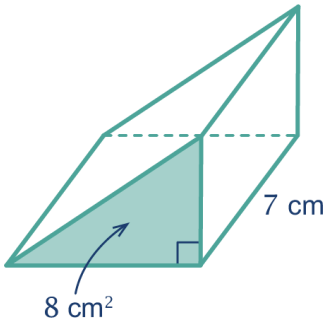
Volume of Triangular Prisms

Question 1

The volume of a triangular prism is given by:

Volume = area of triangle × depth

Calculate the **volume** of this triangular prism.



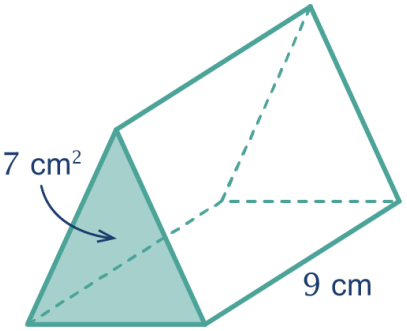
Volume = ☐ cm^3

Question 2

The volume of a triangular prism is given by:

Volume = area of triangle × depth

Calculate the **volume** of this triangular prism.



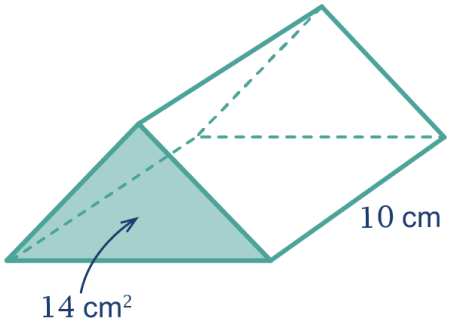
Volume = ☐ cm^3

Question 3

The volume of a triangular prism is given by:

Volume = area of triangle × depth

Calculate the **volume** of this triangular prism.



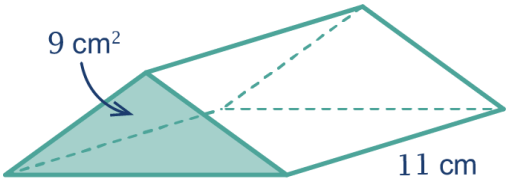
Volume = ☐ cm^3

Question 4

The volume of a triangular prism is given by:

Volume = area of triangle × depth

Calculate the **volume** of this triangular prism.



Volume = ☐ cm^3

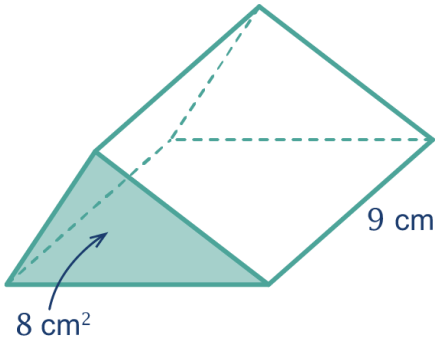
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Question 5

The volume of a triangular prism is given by:

$$\text{Volume} = \text{area of triangle} \times \text{depth}$$

Calculate the **volume** of this triangular prism**.**



Volume $=$ $\square$ cm^3

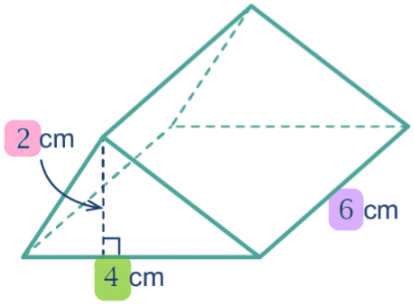
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Worked Example for Standard Questions

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



Volume = $\frac{1}{2}$ × base × height × length

= $\frac{1}{2}$ × 4 × 2 × 6

= 24 cm^3

Volume = 24 cm^3

Check



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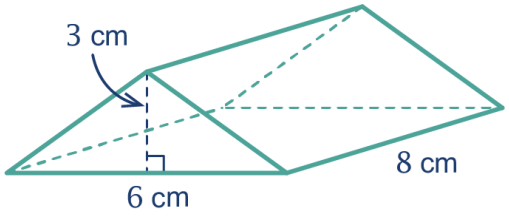
Volume of Triangular Prisms

Question 6

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



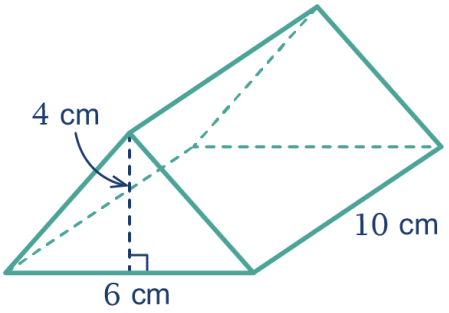
Volume = $\square$ cm^3

Question 7

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



Volume = $\square$ cm^3

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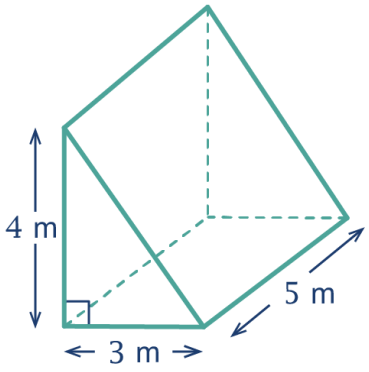
Volume of Triangular Prisms

Question 8

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



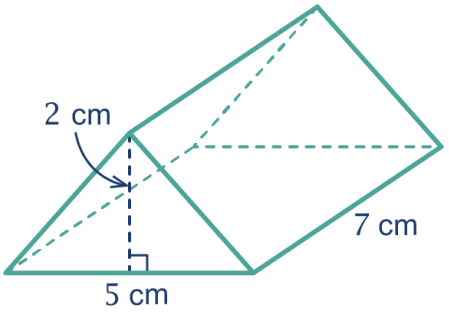
Volume = $\square$ m^3

Question 9

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



Volume = $\square$ cm^3

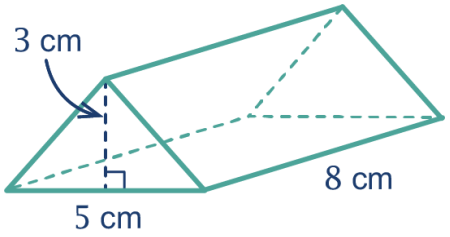
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Question 10

The volume of a triangular prism is given by:

$$\text{Volume} = \frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$$

Calculate the **volume** of this triangular prism.



Volume = $\square$ cm^3

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Ex 10.11

No calculators are permitted in this exercise.

Worked Example for Simple Questions

What is the relationship between the radius (r) and the diameter (d) of a circle?

A

$r = 2d$

B

$r = \frac{d}{2}$

diameter = 2 × radius

OR

radius = $\frac{1}{2}$ × diameter ✓

$r = \frac{d}{2}$

Question 1

What is the relationship between the radius (r) and the diameter (d) of a circle?

Circle the correct option

A

$r = 2d$

B

$r = \frac{d}{2}$

Question 2

What is the relationship between the radius (r) and the diameter (d) of a circle?

Circle the correct option

A

$r = \frac{d}{2}$

B

$r = 2d$

Question 3

What is the relationship between the radius (r) and the diameter (d) of a circle?

Circle the correct option

A

$r = \frac{d}{2}$

B

$r = 2d$

Question 4

What is the relationship between the radius (r) and the diameter (d) of a circle?

Circle the correct option

A

$d = \frac{r}{2}$

B

$d = 2r$

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Question 5

What is the relationship between the radius (r) and the diameter (d) of a circle?

Circle the correct option

A

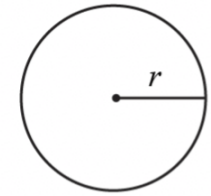
$r = 2d$

B

$r = \frac{d}{2}$

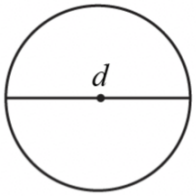
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Worked Example for Standard Questions



Circumference

$C = 2\pi r$



Circumference

?

* $d = 2 \times r$

So, $C = 2\pi r = \pi d$

What formula for circumference (using diameter, d) goes in the box?

A

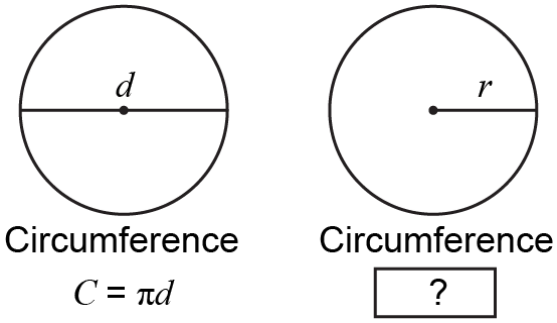
$C = \pi d^2$

B

$C = \pi d$

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Question 6



What formula for circumference (using radius, r) goes in the box?

Circle the correct option

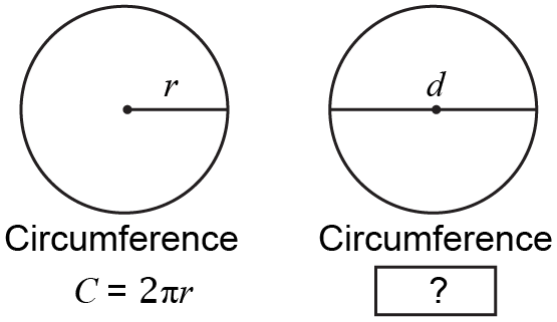
A

$C = \frac{\pi r^2}{2}$

B

$C = 2\pi r$

Question 7



What formula for circumference (using diameter, d) goes in the box?

Circle the correct option

A

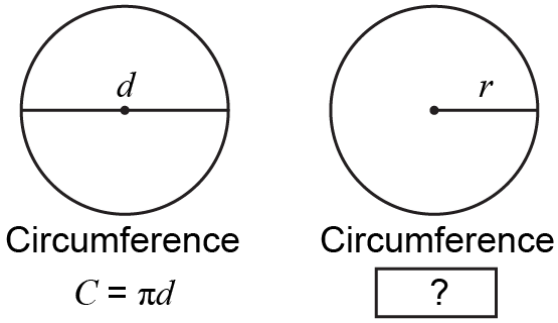
$C = 2\pi d$

B

$C = \pi d$

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Question 8



What formula for circumference (using radius, r) goes in the box?

Circle the correct option

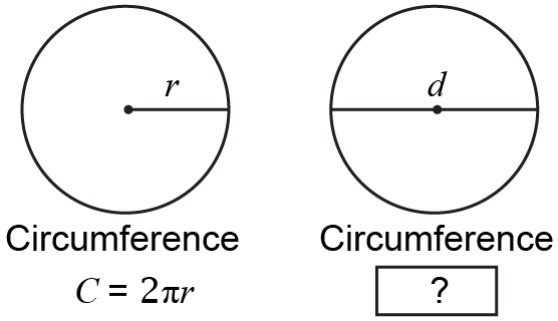
A

$C = 2\pi r$

B

$C = 4\pi r^2$

Question 9



What formula for circumference (using diameter, d) goes in the box?

Circle the correct option

A

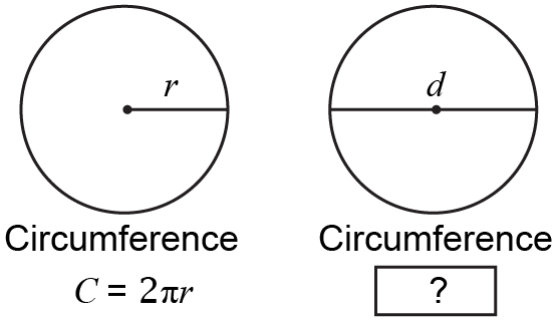
$C = \pi d$

B

$C = \frac{1}{2}\pi d$

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Question 10



What formula for circumference (using diameter, d) goes in the box?

Circle the correct option

A

$C = 3\pi d$

B

$C = \pi d$

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