

Wednesday

10.2.21 X II XXI

WALT: find the area of 2D shapes (triangles and rectangles)

Steps to Success

The area of a rectangle is calculated by using the formula $b \times h$.

Area is measured in cm, mm, m, km square

The area of a triangle is half the area of the rectangle drawn around it

$$\frac{1}{2} (b \times h) \qquad (b \times h) \div 2$$

To calculate the area of compound shapes, divide the shape into different rectangles and triangles.



$6\text{km} = \boxed{} \text{m}$

$70\text{mm} = \boxed{} \text{cm}$

$6\text{cm} = \boxed{} \text{mm}$

$2.5\text{km} = \boxed{} \text{m}$

$0.5\text{km} = \boxed{} \text{m}$

$4.9\text{km} = \boxed{} \text{m}$



$6.7\text{km} = \boxed{} \text{m}$

$14\text{mm} = \boxed{} \text{cm}$

$12.6\text{cm} = \boxed{} \text{mm}$

$3245\text{m} = \boxed{} \text{km}$

$10.2\text{km} = \boxed{} \text{m}$

$4.09\text{km} = \boxed{} \text{m}$



$9.09\text{km} = \boxed{} \text{m}$

$9.009 \text{ km} = \boxed{} \text{m}$

$6.9\text{km} = \boxed{} \text{m}$

$235\text{mm} = \boxed{} \text{cm}$

$0.507\text{km} = \boxed{} \text{m}$

$4.9\text{m} = \boxed{} \text{mm}$



$$6\text{km} = 6000\text{ m}$$

$$70\text{mm} = 7\text{ cm}$$

$$6\text{cm} = 60\text{ mm}$$

$$2.5\text{km} = 2500\text{ m}$$

$$0.5\text{km} = 500\text{m}$$

$$4.9\text{km} = 4900\text{m}$$



$$6.7\text{km} = 6700\text{ m}$$

$$14\text{mm} = 1.4\text{ cm}$$

$$12.6\text{cm} = 126\text{ mm}$$

$$3245\text{m} = 3.245\text{km}$$

$$10.2\text{km} = 10,200\text{m}$$

$$4.09\text{km} = 4090\text{m}$$



$$9.09\text{km} = 9090\text{m}$$

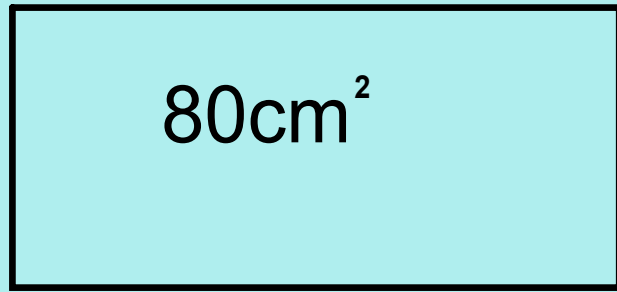
$$9.009\text{ km} = 9009\text{m}$$

$$6.9\text{km} = 6900\text{m}$$

$$235\text{mm} = 23.5\text{cm}$$

$$0.507\text{km} = 507\text{m}$$

$$4.9\text{m} = 4900\text{mm}$$



b

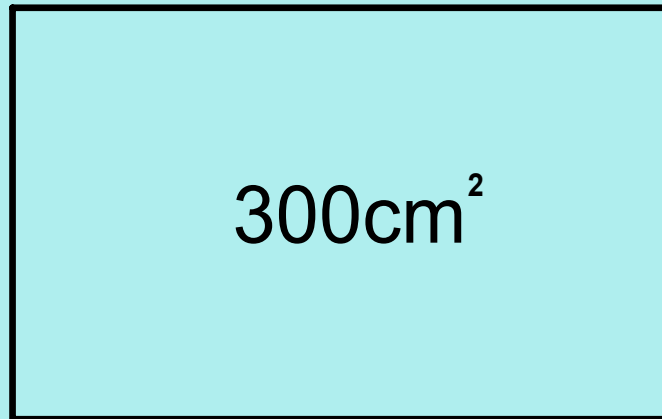
10cm

25cm



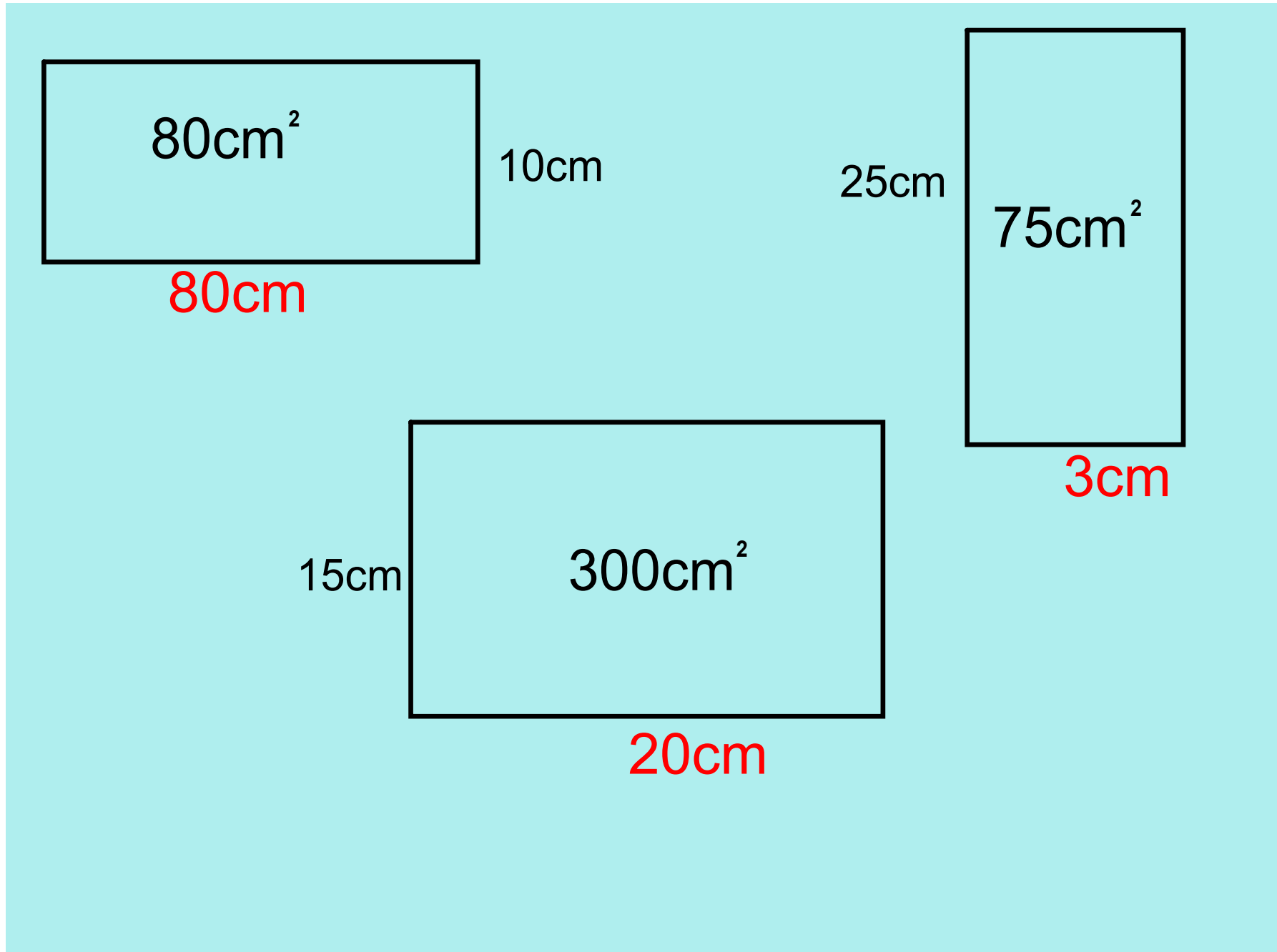
b

15cm

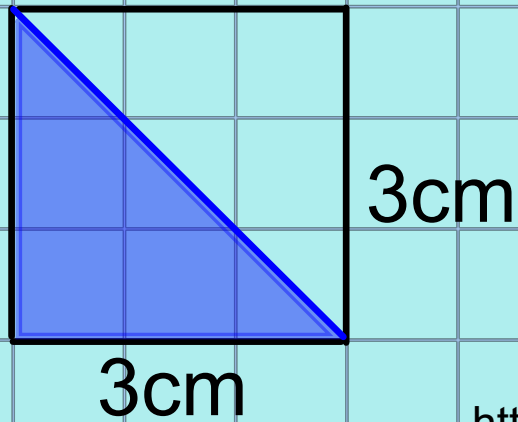


b

300cm^2



Find the area of the shaded triangle by counting the squares.
Find the area of the square. Describe what you notice.

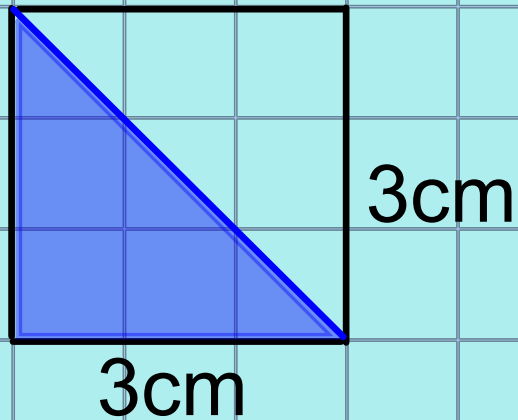


Area of the square =

Area of the triangle =

<https://app.mymaths.co.uk/268-resource/areas-trianglearea>

Find the area of the shaded triangle by counting the squares.
Find the area of the square. Describe what you notice.

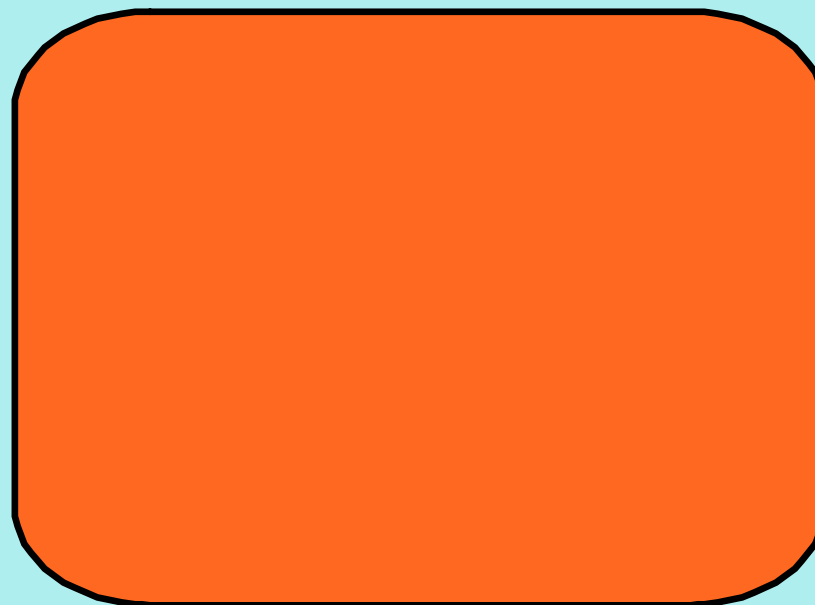
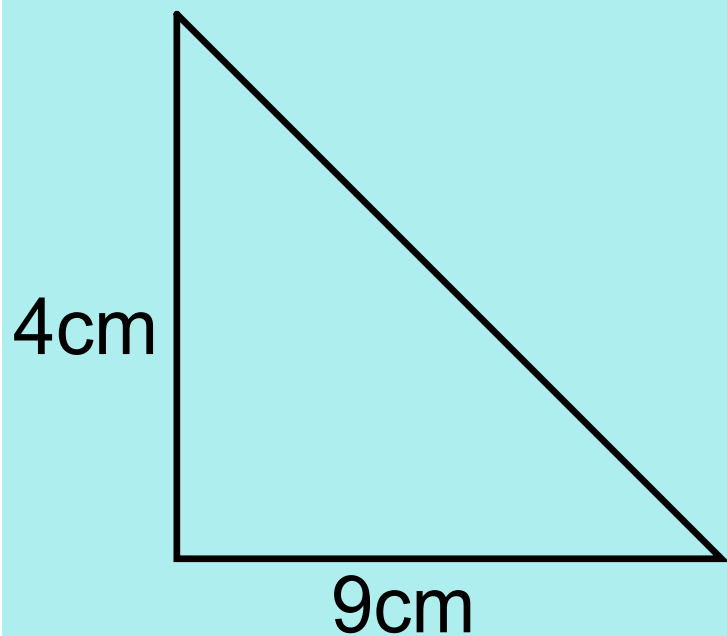


Area of the square = 9cm^2

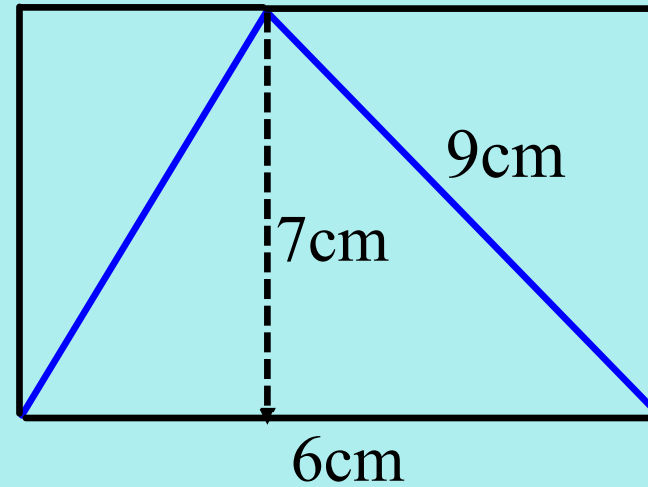
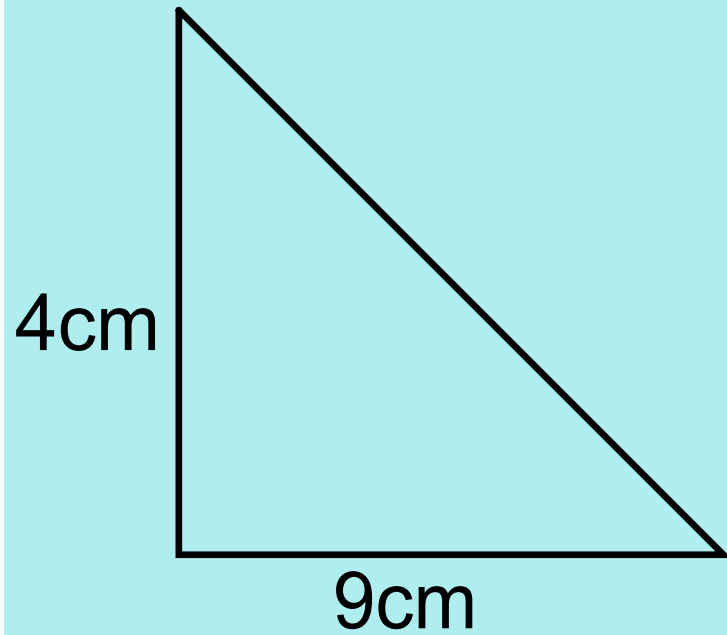
Area of the triangle = 4.5cm^2

The area of the square is half the area of the triangle.

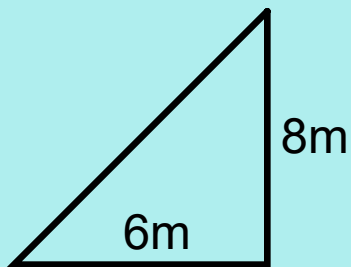
How do you find the area of a triangle?



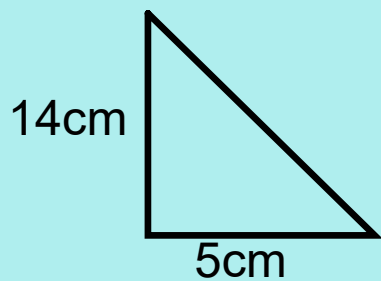
How do you find the area of a triangle?



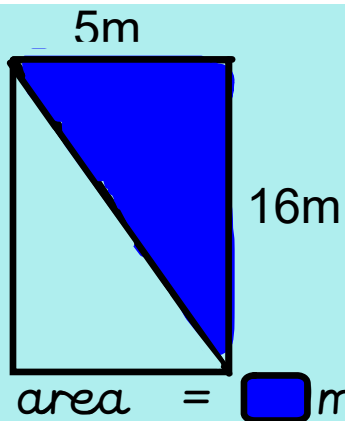
$$A = \frac{1}{2} (b \times h)$$



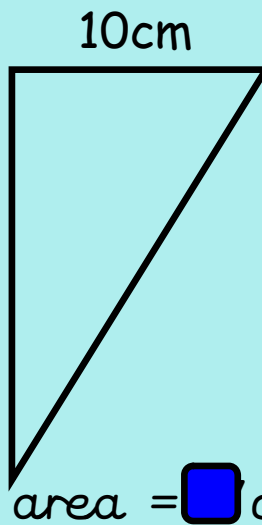
area = cm²



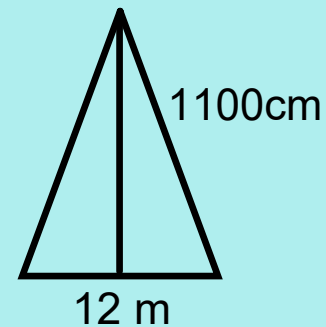
area = cm²



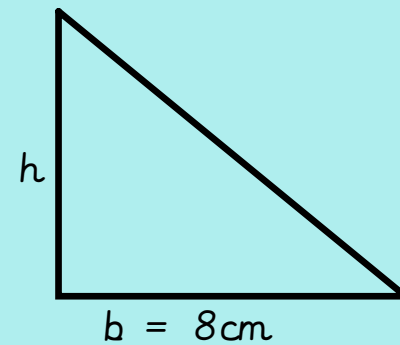
area = m²



area = cm²

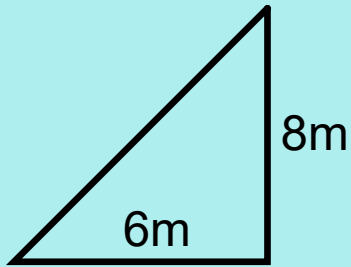


area = m²

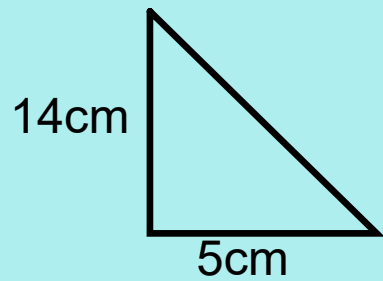


area = 32 cm²

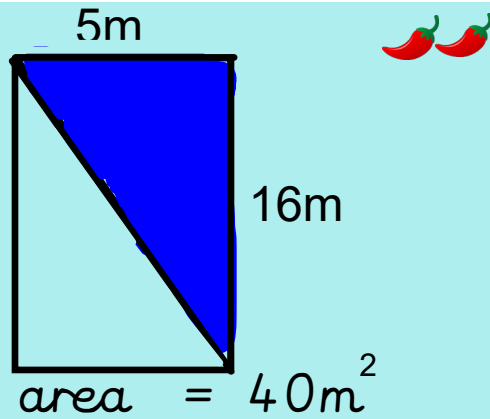
h = cm



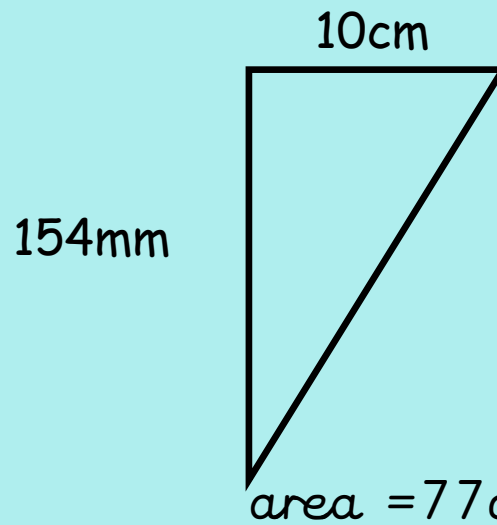
$$\text{area} = 24\text{cm}^2$$



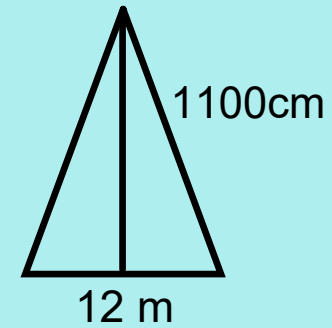
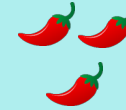
$$\text{area} = 35\text{cm}^2$$



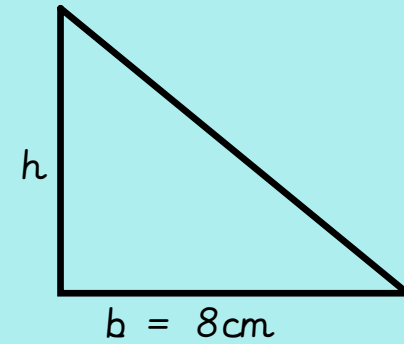
$$\text{area} = 40\text{m}^2$$



$$\text{area} = 77\text{cm}^2$$



$$\text{area} = 66\text{m}^2$$



$$\text{area} = 32\text{cm}^2$$

$$h = 8\text{cm}$$

 <https://app.mymaths.co.uk/268-lesson/area-of-a-triangle?hasFlash=true>

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WALT: find the area of 2D shapes (triangles and rectangles)

Activity:

Please find your activity on the blog.

Attachments



<http://www.mymaths.co.uk/tasks/library/loadLesson.asp?title=areas/trianglearea&taskID=1129>