1

Work out the area of these shapes:

1. 4 cm, 10 cm
2. 9 cm, 7 cm
3. 12 cm, 5 cm

2

Copy and complete this table showing the measurements of rectangles.

Length	Width	Area
6 cm	4 cm	
8 cm	5 cm	
11 m		33 m²
9 m		54 m²
	8 cm	96 cm²
	10 cm	400 cm²
15 m		30 m²
	7 m	56 m²

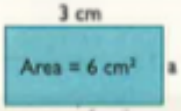
3

A square and rectangle are shown below. Which shape has the largest area?

A: 9 m

B: 8 m, 11 m

Look at the rectangle below. What is the length of side a?



4

For each rectangle, identify the missing side:

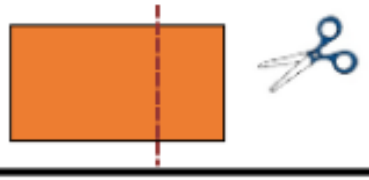
3. ? cm, Area: 40 cm², 5 cm
4. 12 cm, Area: 60 cm², ? cm
5. 9 cm, Area: 27 cm², ? cm
6. ? cm, Area: 96 cm², 8 cm

5

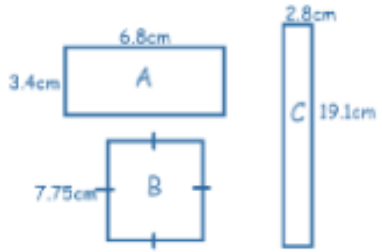
True or False?

If you cut off a piece from a shape, you reduce its area and perimeter.

Draw 2 examples to prove your thinking.



6



Approximate the area of each shape and then order from largest to smallest.

7

This rectangle has an area of 72 cm².

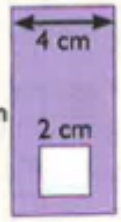
What is the perimeter of the rectangle?

8

The diagram shows a purple rectangle with a square cut out of it.

Calculate the area:

11. of the square cut out.
12. of remaining purple part.



9

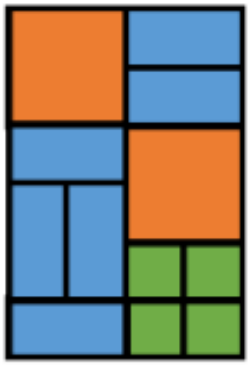
Each orange square has an area of 4 cm².

Calculate the total orange area.

Calculate the blue area.

Calculate the green area.

What is the total area of the whole shape?



or

9

Each orange square has an area of 24 cm².

Calculate the total orange area.

Calculate the blue area.

Calculate the green area.

What is the total area of the whole shape?

Dive Deeper

- Draw it
- Explain it
- Make a mistake
- Tell a Maths story
- Prove it

IXL
R3. - R11

Work out the area of these shapes:

1. 4 cm, 10 cm — $40cm^2$
2. 9 cm, 7 cm — $63cm^2$
3. 12 cm, 5 cm — $60cm^2$

Copy and complete this table showing the measurements of rectangles.

Length	Width	Area
6 cm	4 cm	$24cm^2$
8 cm	5 cm	$40cm^2$
11 m	3m	33 m^2
9 m	6m	54 m^2
12cm	8 cm	96 cm^2
40cm	10 cm	400 cm^2
15 m	2m	30 m^2
8m	7 m	56 m^2

A square and rectangle are shown below. Which shape has the largest area?

A: 9 m; B: 8 m, 11 m — B $88m^2$

Look at the rectangle below. What is the length of side a?

3 cm, Area = 6 cm^2, a — 2cm

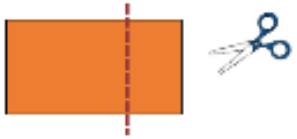
For each rectangle, identify the missing side:

3. ? cm, Area: 40 cm^2, 5 cm — 8
4. 12 cm, Area: 60 cm^2, ? cm — 5cm
5. 9 cm, Area: 27 cm^2, ? cm — 3cm
6. ? cm, Area: 96 cm^2, 8 cm — 12cm

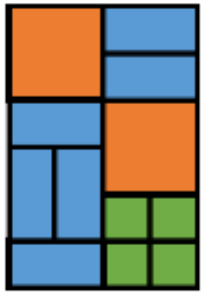
True or False?

If you cut off a pece from a shape, you reduce its area and perimeter.

Draw 2 examples to prove your thinking.



True



Each orange square has an area of ___ cm^2.

Calculate the total orange area.

Calculate the blue area.

Calculate the green area.

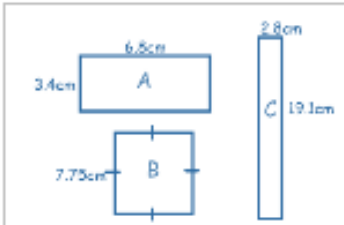
What is the total area of the whole shape?

Answer: Orange = 8 cm^2

Blue = 12 cm^2

Green = 4 cm^2

Total = 24 cm^2



Approximate the area of each shape and then order from largest to smallest.

Answer: A = 3cm × 7cm = $21cm^2$

B = 8cm × 8cm = 64cm

C = 3cm × 19cm = $57cm^2$

Order: B, C, A

Each orange square has an area of 24 cm^2.

Calculate the total orange area.

Calculate the blue area.

Calculate the green area.

What is the total area of the whole shape?

Answer: Orange = $48cm^2$

Blue = $72cm^2$

Green = $24cm^2$

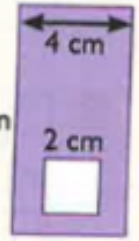
Total = $144cm^2$

This rectangle has an area of 72 cm^2.

12cm, 6 cm

What is the perimeter of the rectangle? 36cm

The diagram shows a purple rectangle with a square cut out of it.



Calculate the area: $4cm^2$

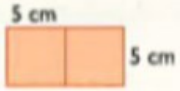
11 of the square cut out.

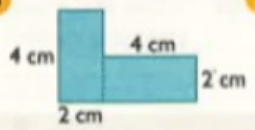
12 of remaining purple part.

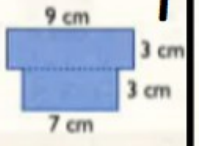
$32 - 4 = 28cm^2$

1

Work out the area of these shapes:

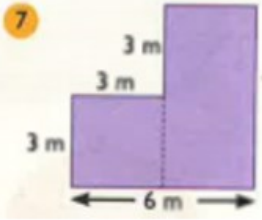
7 

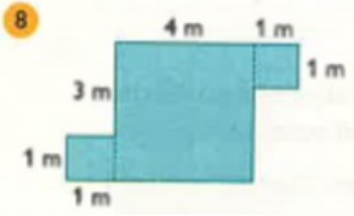
8 

9 

2

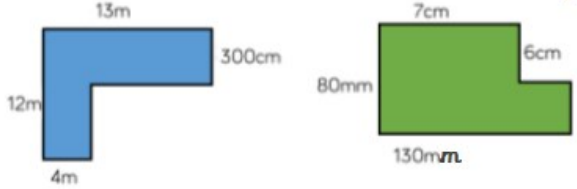
Work out the area of the shapes below:

7 

8 

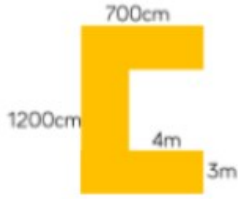
3

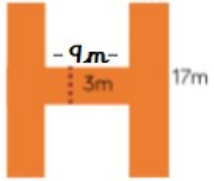
Calculate the area.



4

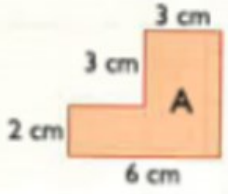
Calculate the area of these symmetrical shapes.

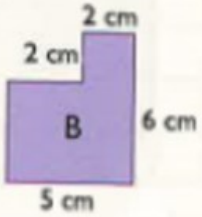




5

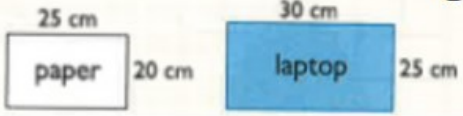
10 Which of the shapes below has the smaller area?





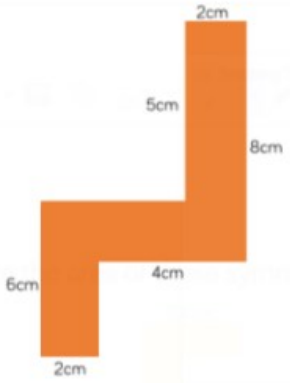
6

11 Harleen measures her laptop screen and a piece of paper. What is the difference between their areas?



7

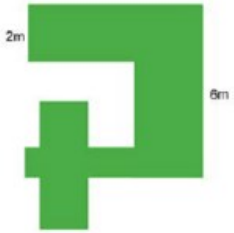
Jack has a shape with an area of 34 cm^2.



Draw 3 possible compound shapes that have an area of 34 cm^2.

8

How many different ways can you split this shape to find the area?



Add more values and work out the area.

Dive Deeper

- Draw it
- Explain it
- Make a mistake
- Tell a Maths story
- Prove it

IXL
R 8-10

Work out the area of these shapes:

1

7 5 cm, 5 cm

8 4 cm, 4 cm, 2 cm, 2 cm

9 9 cm, 3 cm, 3 cm, 7 cm

$50cm^2$ $16cm^2$ $48cm^2$

Work out the area of the shapes below:

2

7 3 m, 3 m, 3 m, 6 m

8 4 m, 1 m, 1 m, 3 m, 1 m, 1 m

$27m^2$ $18m^2$

Calculate the area.

3

13m, 300cm, 12m, 4m

$75m^2$

7cm, 6cm, 80mm, 130m

$92cm^2$

Calculate the area of these symmetrical shapes.

4

700cm, 1200cm, 4m, 3m

$60m^2$

4m, 3m, 17m

$154m^2$

10 Which of the shapes below has the smaller area?

5

A: 3 cm, 3 cm, 2 cm, 6 cm

B: 2 cm, 2 cm, 6 cm, 5 cm

$A=24cm^2$

How many different ways can you split this shape to find the area?

8

2m, 6m

Add more values and work out the area.

11 Harleen measures her laptop screen and a piece of paper. What is the difference between their areas?

6

paper: 25 cm, 20 cm

laptop: 30 cm, 25 cm

$750-500=250cm^2$

Jack has a shape with an area of 34 cm².

7

2cm, 5cm, 8cm, 6cm, 4cm, 2cm

Draw 3 possible compound shapes that have an area of 34 cm².

Dive Deeper

- Draw it
- Explain it
- Make a mistake
- Tell a Maths story
- Prove it

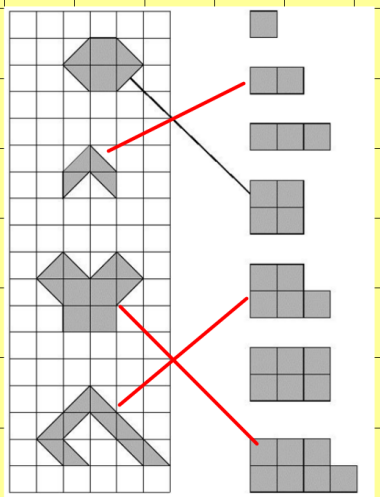
IXL

R 8-10

Day 3 WALT Find the Area of Irregular Shapes

Mega Challenge

Match the shapes on the grid to those with the same area.
One has been done for you.



Day 3 WALT Find the Area of Irregular Shapes

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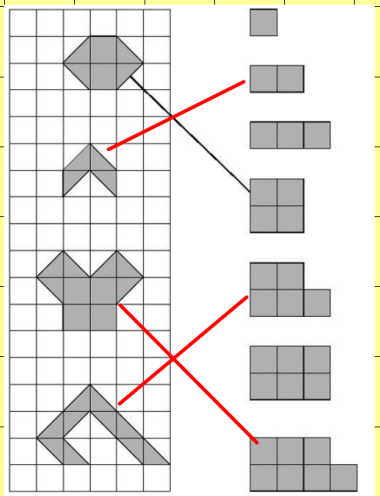
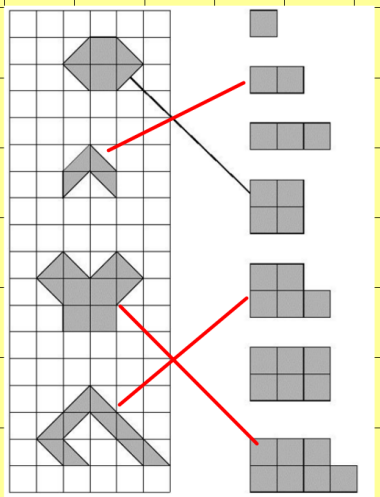


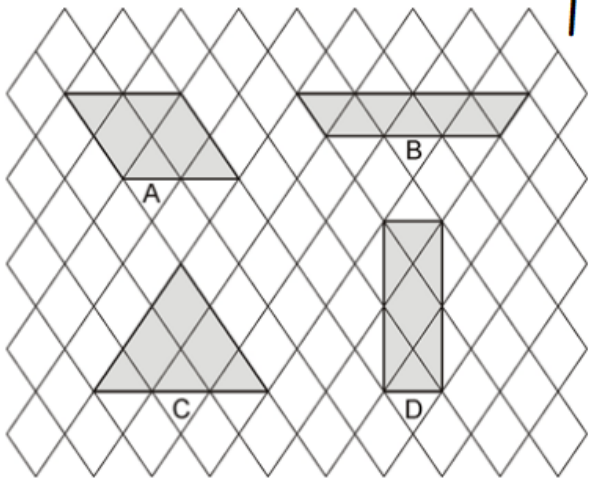
Day 3 WALT Find the Area of Irregular Shapes

Mega Challenge

Match the shapes on the grid to those with the same area.
One has been done for you.



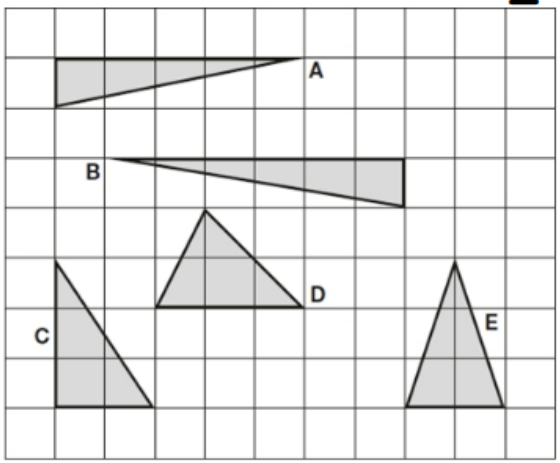
1



Write the letters of the **two** shapes that are equal in area.

2

Here are five triangles on a square grid.

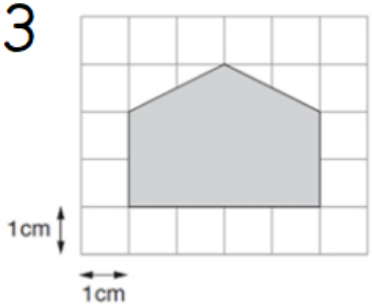


Four of the triangles have the same area.

Which triangle has a **different** area?

3

Here is a shaded shape on a 1 cm square grid.



What is the **area** of the shaded shape?

4

Estimate the area of the pond.
Each square = 1 m^2

The answer is 4 whole and 11 parts.
Is this an acceptable answer?
What can we do with the parts to find an approximate answer?

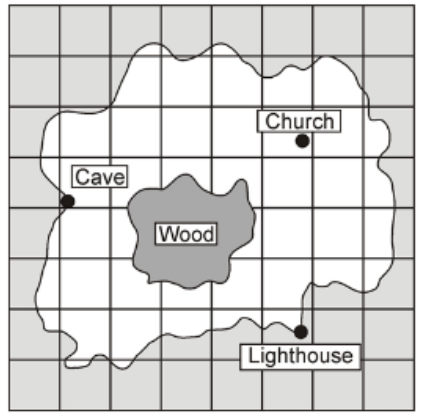
5

If all of the squares are 1cm in length, which shape has the greatest area?

Is the red shape the greatest because it fills more squares? Why? Why not?
What is the same about each image? What is different about each image?

6

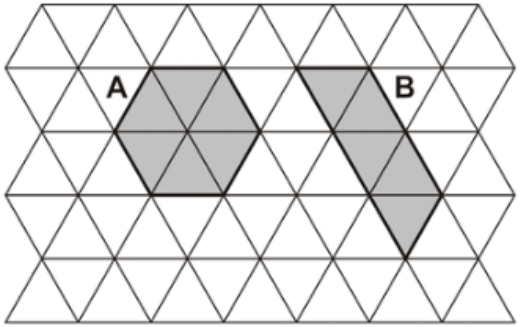
Here is a map of an island.



Estimate the area of the **Wood**.

7

Leon's grid has two shaded shapes.



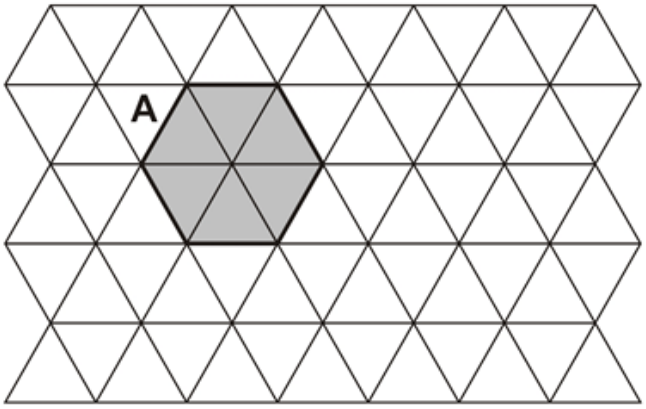
Leon says,

"Shape A has a larger area than shape B."

Explain how he could have worked this out.

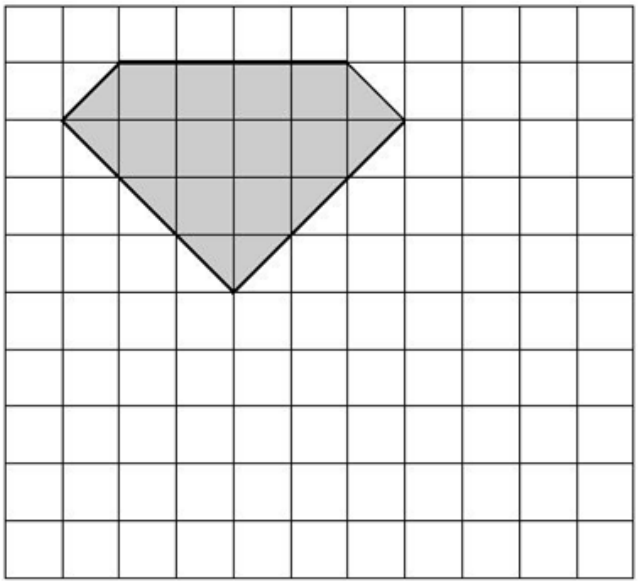
Complete drawing task sheet

On this grid draw a **different** shape. It **must** have the **same area** as shape **A**.



On the grid, draw a **rectangle** which has the **same area** as this shaded pentagon.

Use a ruler.



Draw a rectangle on the grid that has **half** the area of the shaded triangle.

Use a ruler.