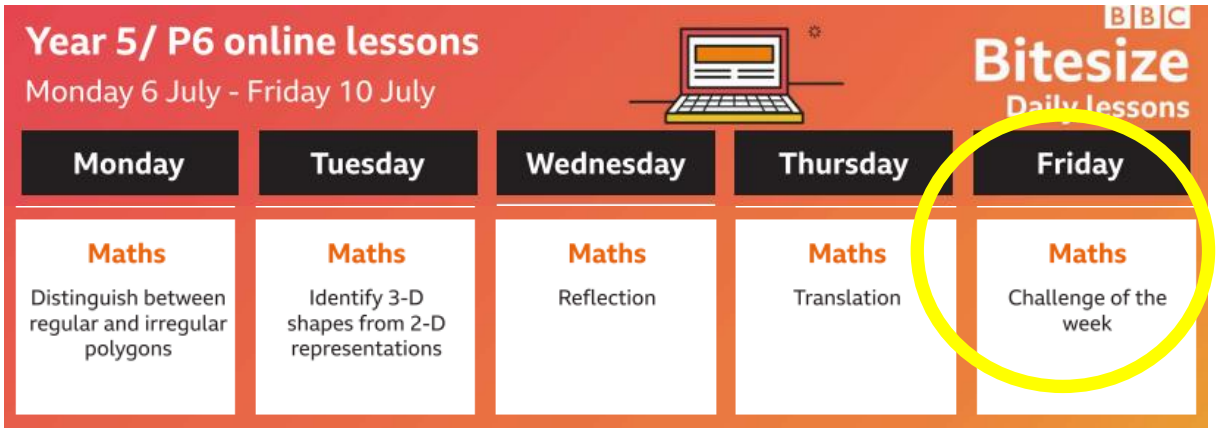
Summer 2 Week 6 Maths Day 5

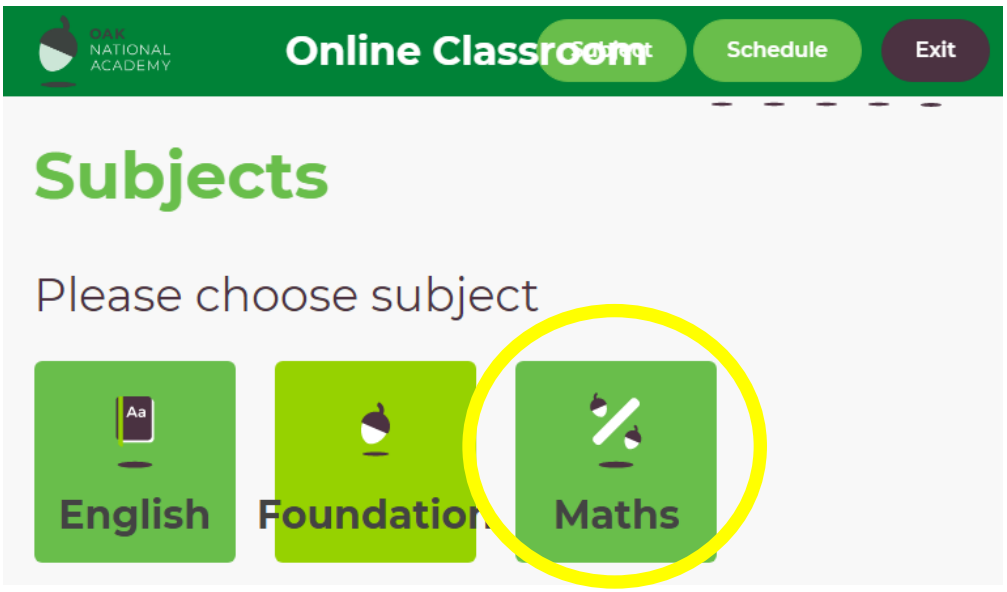
Try BBC Bitesize for daily lessons

https://www.bbc.co.uk/bitesize/dailylessons



Try the National Academy online classroom for lessons

https://www.thenational.academy/online-classroom/year-5/#subjects



Don't forget TT Rockstars!

https://play.ttrockstars.com/auth/school/student

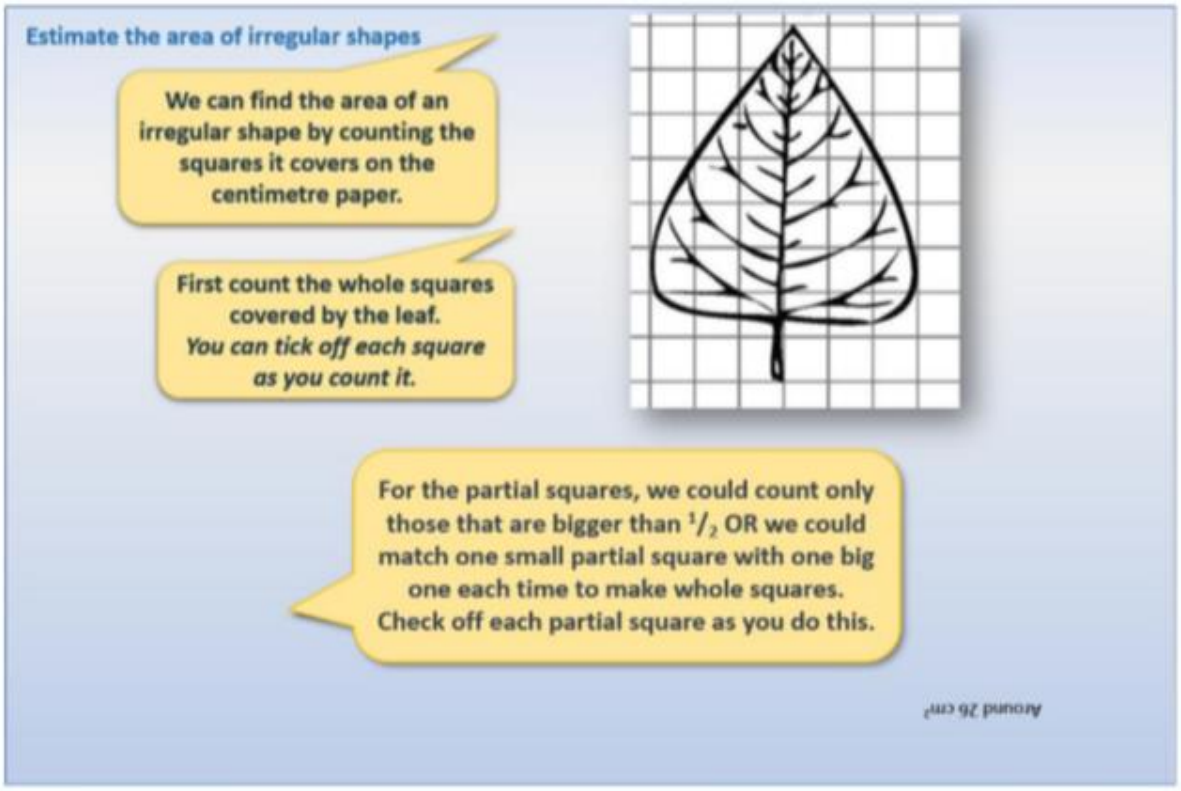
Summer 2 Week 6 Maths Day 5

Estimate the area of irregular shapes

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Look at the learning reminders.
2. Complete 'Mild' or 'Hot' practice questions
3. Finding it tricky? Have a look at 'A bit stuck' and ask a grown up
4. Completed the practise sheets? Try the 'Check your understanding' questions!

Learning Reminders



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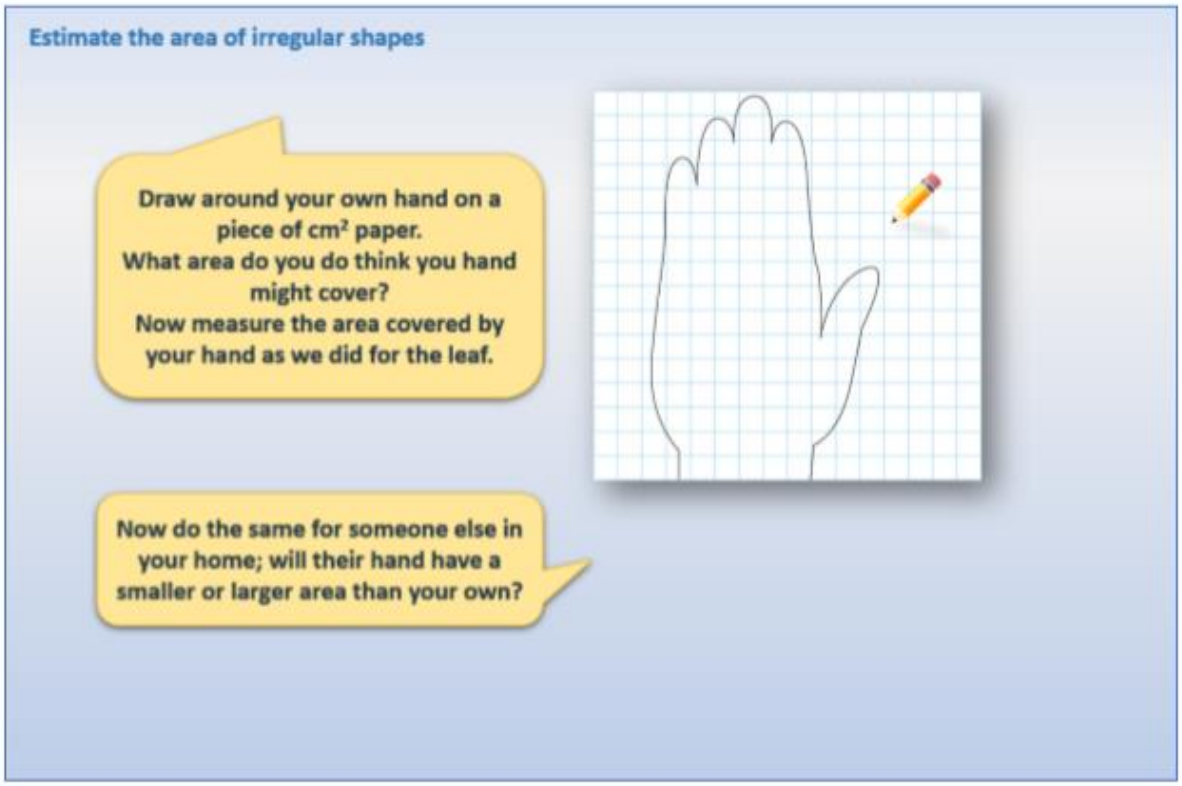

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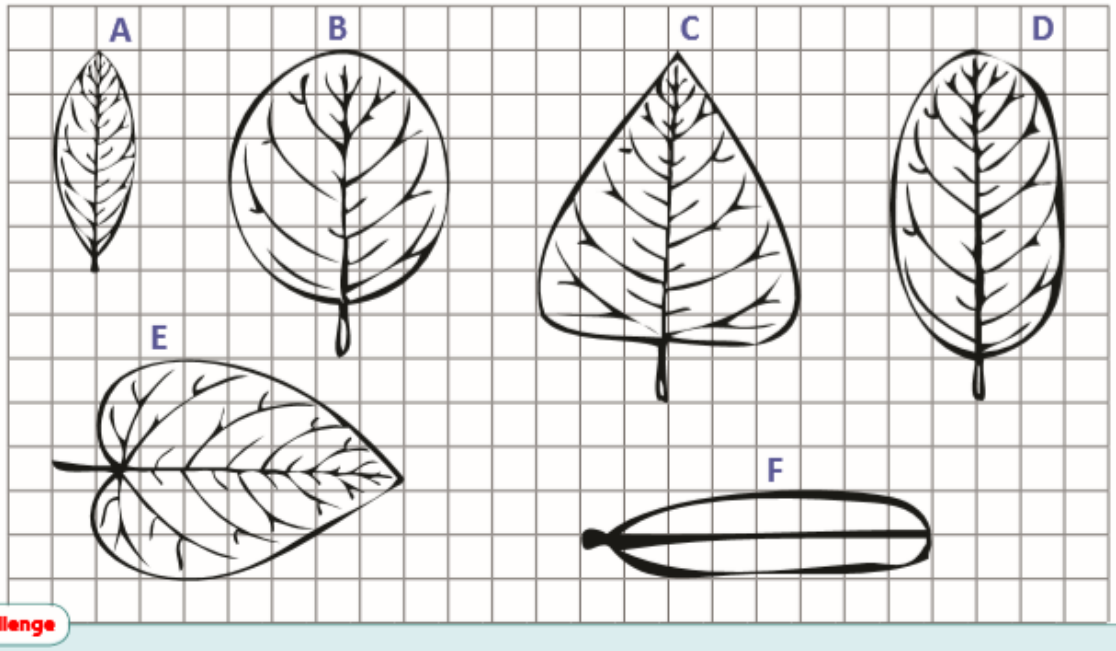
Practice Sheet for All

Estimating area

Which leaf shape do you think has the greatest area?
Write the letters of the leaves in order from which you think has the least area to the greatest areas.
Now count squares and half squares to find out the approximate area of each leaf shape.



Hot challenge

Find four more irregularly shaped objects, e.g. a banana skin, a plant leaf, the base of a tea cup, your footprint, etc. Estimate the area of each. Draw around each and find its area. How accurate were your estimates?

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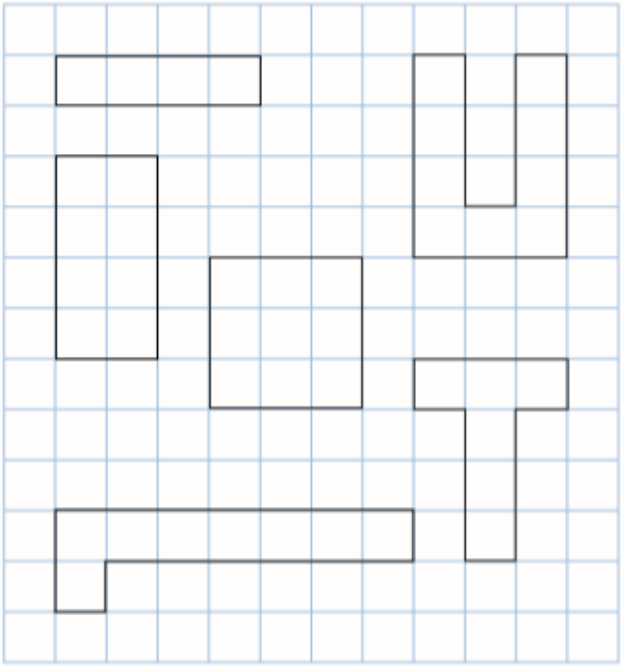
A bit stuck?

Remember
The perimeter is the distance around all sides of a 2-D shape.
To find the perimeter of a rectangle, add the length and width, then double.

A Bit Stuck?
Area and perimeter

Perimeter is (7cm + 3cm) doubled so, perimeter= 20cm
Area is 3cm x 7 = 21cm²

Label each shape with a letter A to F to describe its area and perimeter.



A Area: 9cm²
Perimeter: 20cm

B Area: 8cm²
Perimeter: 18cm

C Area: 4cm²
Perimeter: 10cm

D Area: 9cm²
Perimeter: 12cm

E Area: 6cm²
Perimeter: 14cm

F Area: 8cm²
Perimeter: 12cm

Check your understanding

Sam has two photos. One has an area of 49cm². The other has an area of 56cm².
A side length of one photo is equal to one of the sides of the other.
What are the side lengths of the two photos?

The area of a rectangle is 45 cm². If one side is 4cm longer than the other, what is the perimeter of the rectangle?

Mary has an oval table. She wants to find its area as accurately as she can.
Write 2 or 3 sentences explaining how she might do this.

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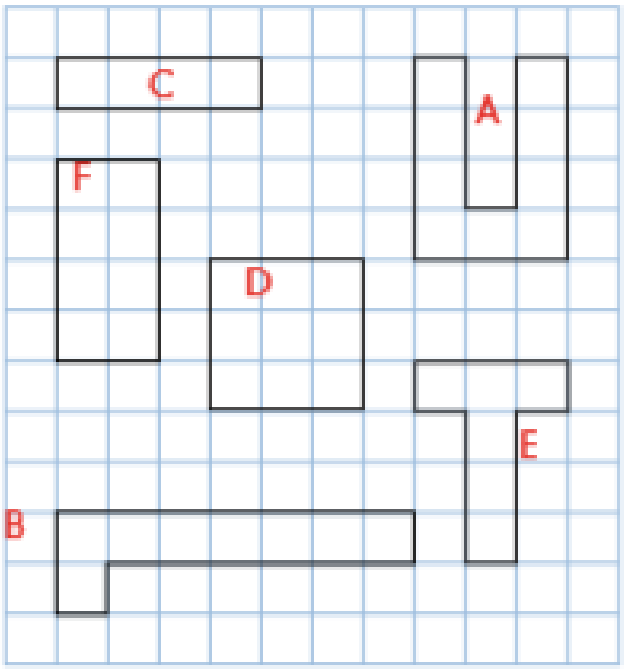
Answers

Estimating area

Leaf A is approximately 7 cm^2.
Leaf B is approximately 22 cm^2.
Leaf C is approximately 26 cm^2.
Leaf D is approximately 23 cm^2.
Leaf E is approximately 26 cm^2.
Leaf F is approximately 12 cm^2.

A bit stuck

Area and perimeter



A	Area: 9cm^2 Perimeter: 20cm
B	Area: 8cm^2 Perimeter: 18cm
C	Area: 4cm^2 Perimeter: 10cm
D	Area: 9cm^2 Perimeter: 12cm
E	Area: 6cm^2 Perimeter: 14cm
F	Area: 8cm^2 Perimeter: 12cm

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Check your understanding

Sam has two photos. One has an area of $49cm^2$. The other has an area of $56cm^2$.
A side length of one photo is equal to one of the sides of the other.
What are the side lengths of the two photos?
7cm by 7cm and 7cm by 8cm

The area of a rectangle is $45cm^2$. If one side is 4cm longer than the other, what is the perimeter of the rectangle? 28cm.

The sides must be 9cm and 5cm which give an area of $45\ cm^2$.
The perimeter is 28cm (9cm + 5cm + 9cm + 5cm).

Mary has an oval table. She wants to find its area as accurately as she can.
Write 2 or 3 sentences explaining how she might do this.

One way would be to use centimetre squared paper – cut out pieces that are 10 by 10cm, i.e. $100cm^2$ (or larger pieces, but keep them all the same); see how many fit across the main part of the surface. Then cut out pieces to cover the curved parts and count as accurately as possible.