# Week 6, Day 3 Describe properties of 2-D shapes, including polygons.

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

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.
- 3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...



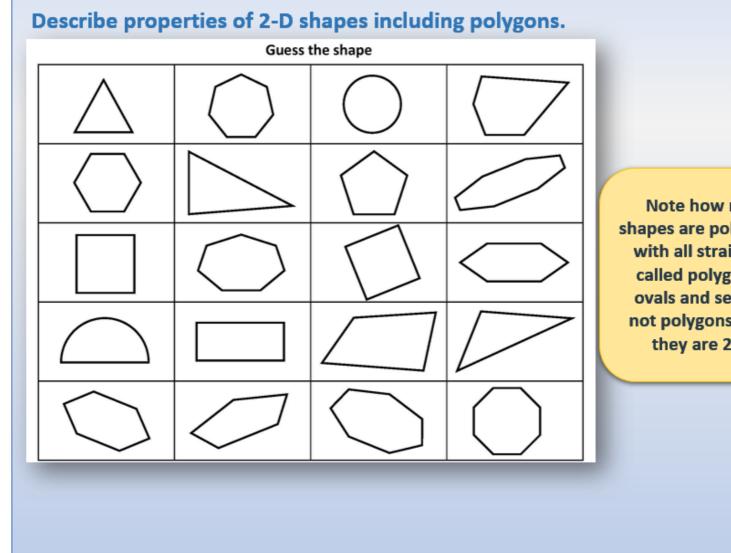


2.1 2.2 2.3 2.4 2.5 2.6

Write a number that goes between 2.3 and 2.4.



## **Learning Reminders**

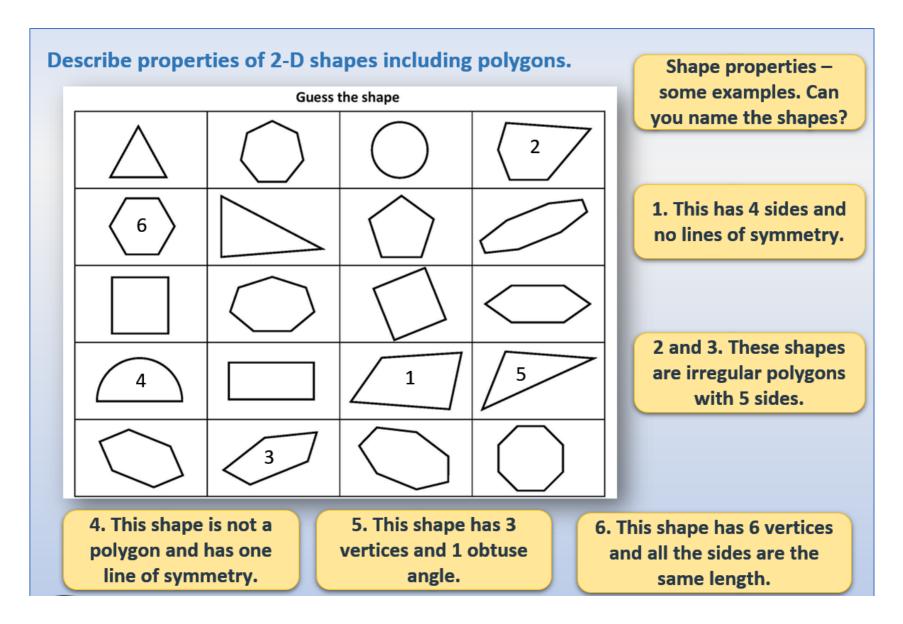


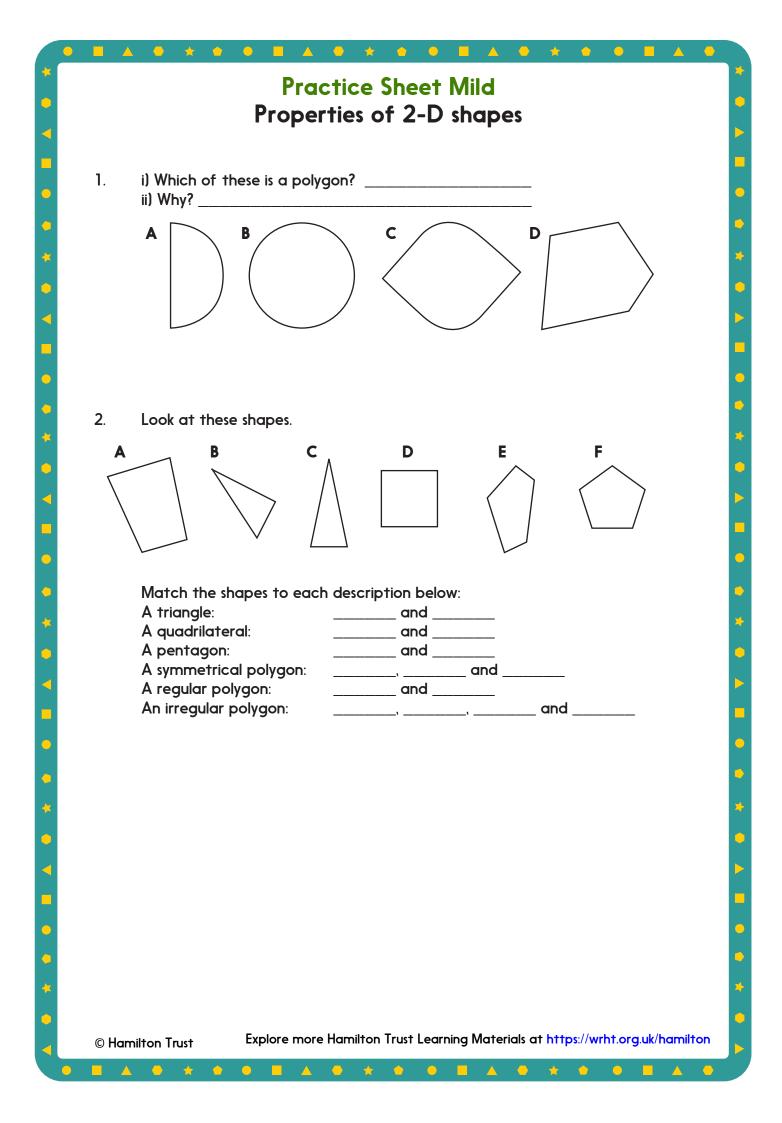
Note how most of the shapes are polygons. Shapes with all straight sides are called polygons. Circles, ovals and semicircles are not polygons even though they are 2-D shapes.

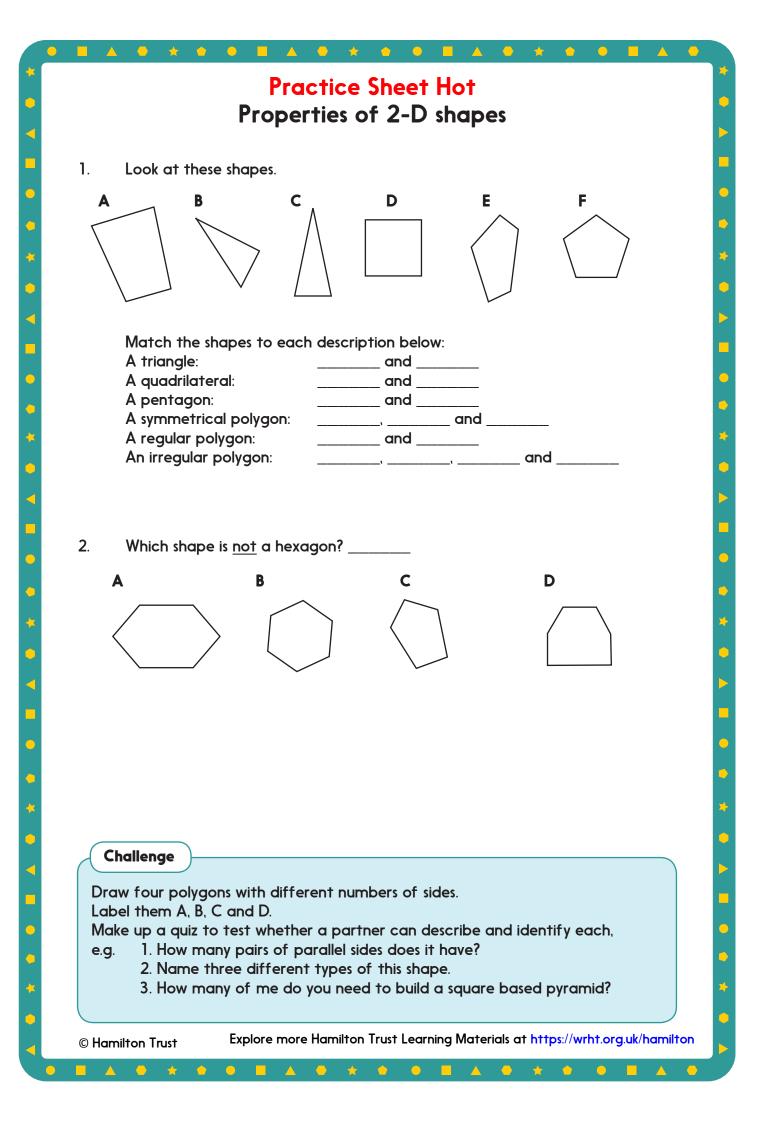
# **Describe properties of 2-D shapes including polygons.** polygon Some useful vocabulary for describing shapes, this will help you with today's activities. regular/irregular number of vertices number of sides right/obtuse/acute angles

lines of symmetry

## **Learning Reminders**







## **Practice Sheets Answers**

#### Properties of 2-D shapes (mild)

i) D
 ii) It has all straight sides

2. Match the shapes to each description: A triangle: <u>B</u> and <u>C</u> A quadrilateral: <u>A</u> and <u>D</u> A pentagon: <u>E</u> and <u>F</u> A symmetrical polygon: <u>C</u>, <u>D</u> and <u>F</u> A regular polygon: <u>D</u> and <u>F</u> An irregular polygon: <u>A</u>, <u>B</u>, <u>C</u> and <u>E</u>

#### Properties of 2-D shapes (hot)

Match the shapes to each description:

 A triangle: <u>B</u> and <u>C</u>
 A quadrilateral: <u>A</u> and <u>D</u>
 A pentagon: <u>E</u> and <u>F</u>
 A symmetrical polygon: <u>C</u>, <u>D</u> and <u>F</u>
 A regular polygon: <u>D</u> and <u>F</u>
 An irregular polygon: <u>A</u>, <u>B</u>, <u>C</u> and <u>E</u>

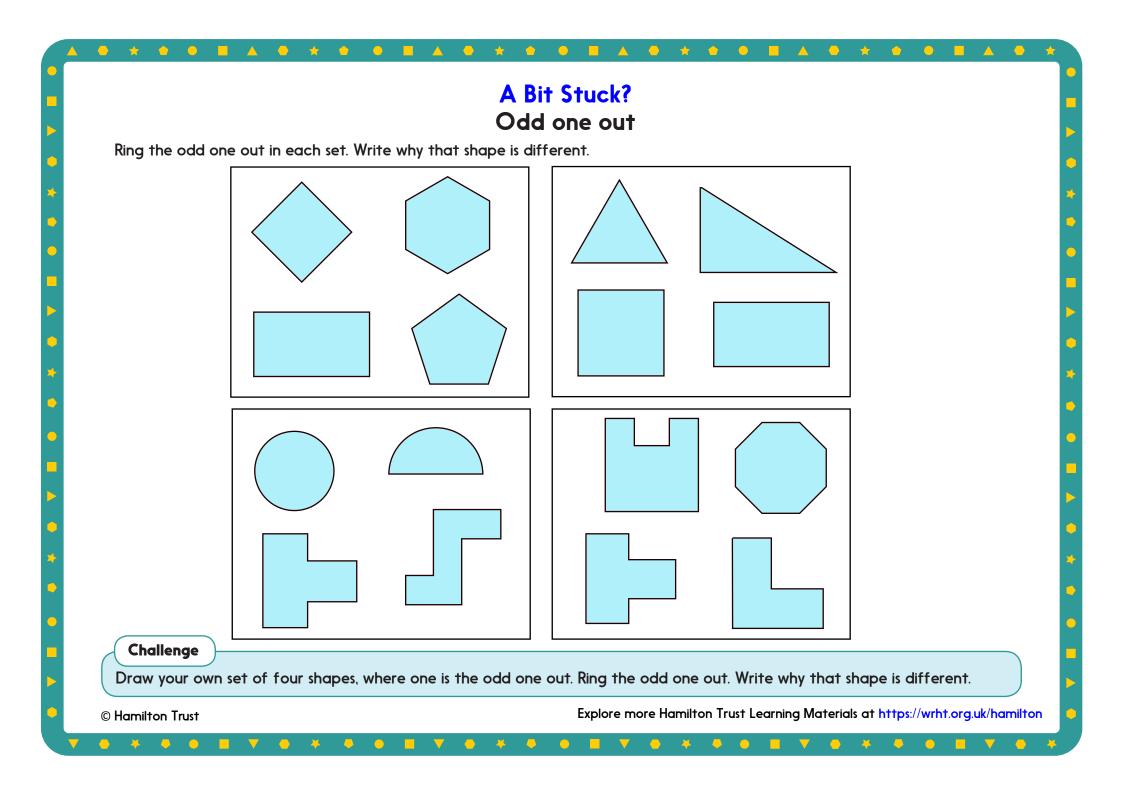
2. C

#### Challenge

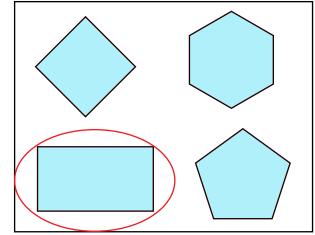
Children should draw four polygons with different numbers of sides and create a quiz to test whether their partner can identify and describe these shapes.

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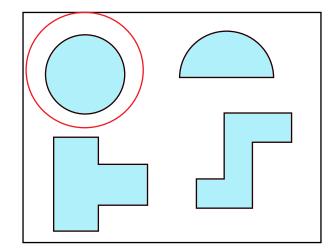
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## A Bit Stuck? Answers

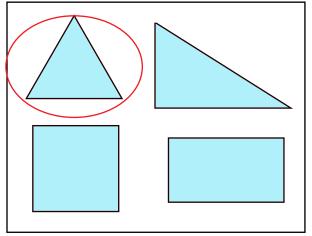


The other shapes are regular polygons.

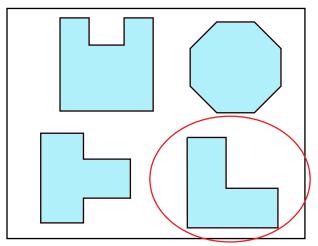


This is the only shape which doesn't have at least one straight side.

The semicircle could also be the odd one out as it has both straight and curved sides.



The other shapes all have at least one right angle.



The other shapes are all octagons. The top right could also be the odd one out as it is the only regular polygon.

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