

Year 4 Maths, 23rd June
2020

NUMBER PRACTICE

- ▶ A: A third of 96 =
- ▶ B: Double 17.6 =
- ▶ C: Two fifths of 35 =
- ▶ D: A quarter of 320 =
- ▶ E: 644 divided by 4 =
- ▶ F: 7 less than 2001 =

NUMBER PRACTICE answers

- ▶ A: A third of 96 = 32
- ▶ B: Double 17.6 = 35.2
- ▶ C: Two fifths of 35 = 10
- ▶ D: A quarter of 320 = 80
- ▶ E: 644 divided by 4 = 161
- ▶ F: 7 less than 2001 = 1994

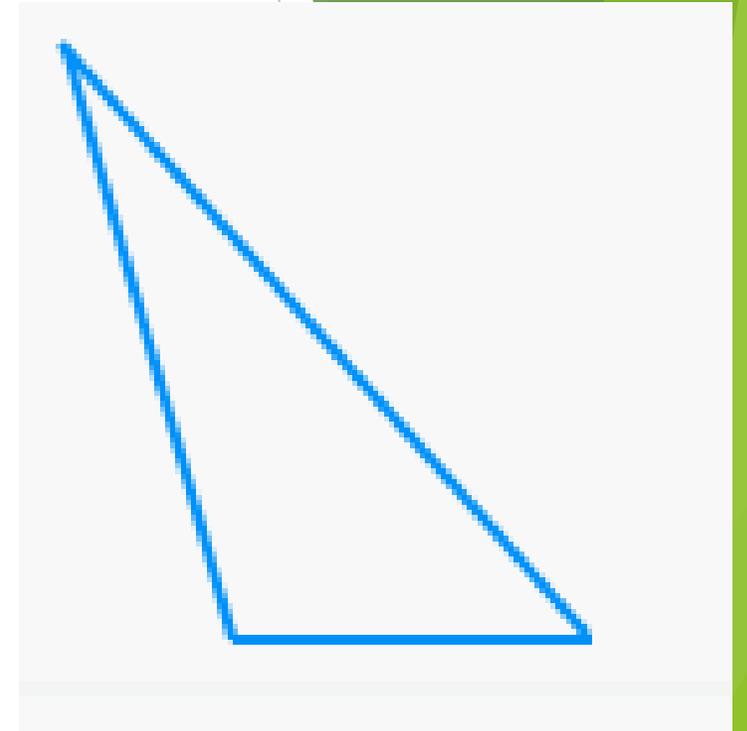
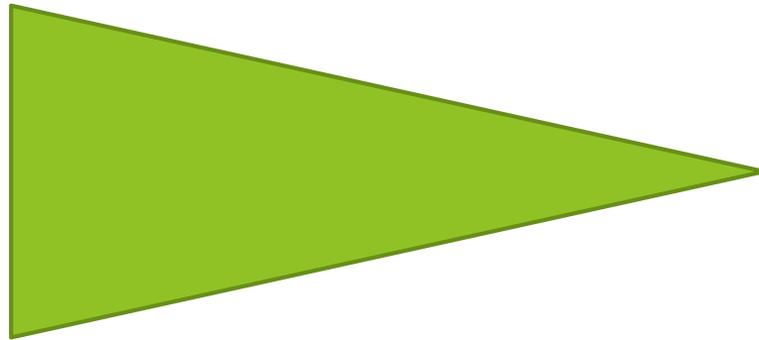
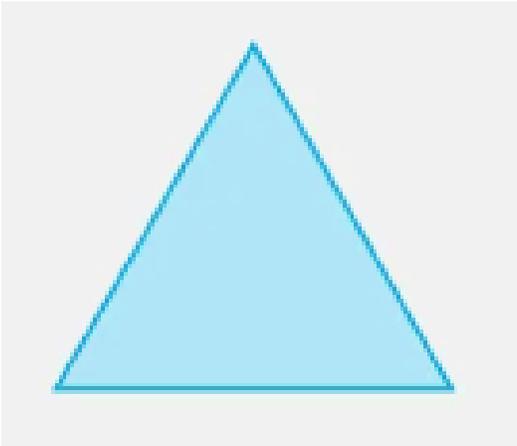
- ▶ **LO:**
- ▶ **I CAN RECOGNISE AND DESCRIBE THE PROPERTIES OF QUADRILATERALS**

A quadrilateral is a 2D shape made of 4 straight lines

- ▶ SOME WILL EVEN use their knowledge and vocabulary of quadrilaterals to draw and describe a kite (DD3)
- ▶ SOME will make every possible quadrilateral from lines of two lengths (DD2)
- ▶ MOST will use their knowledge to sort quadrilaterals into a table (DD1)
- ▶ ALL will name and describe quadrilaterals using mathematical vocabulary (IP)

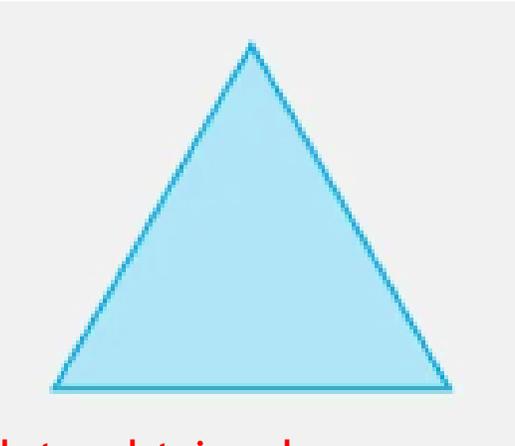
RECALL

- ▶ What do you know about these shapes?



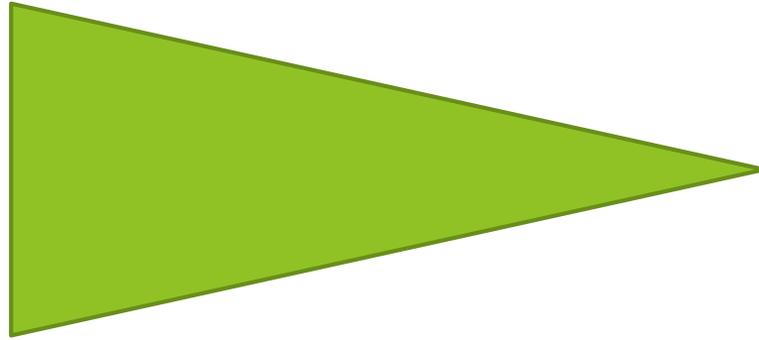
RECALL answers

► What do you know about these shapes?



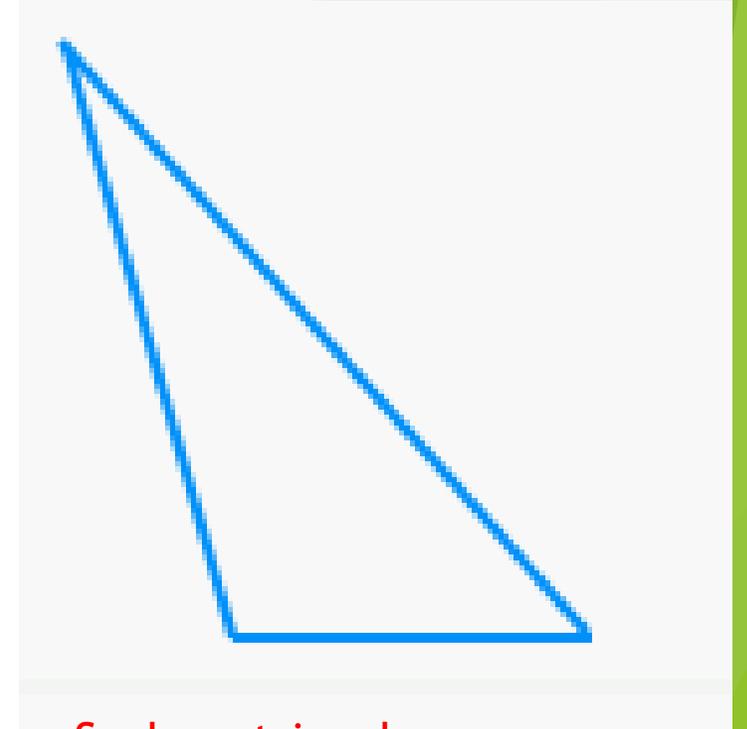
Equilateral triangle

Three sides equal length
Each internal angle measures 60 degrees



Isosceles triangle

Two sides with equal lengths
Two equal internal angles

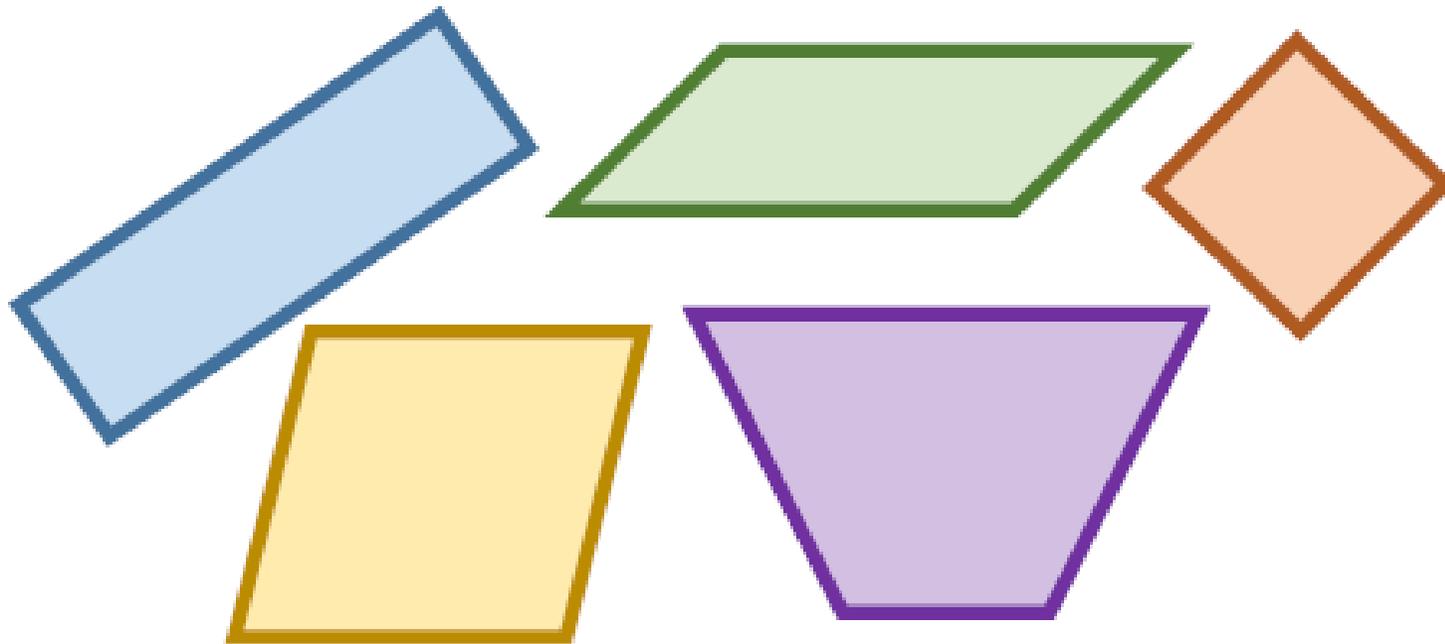


Scalene triangle

All sides different lengths
All internal angles different

RECALL 2

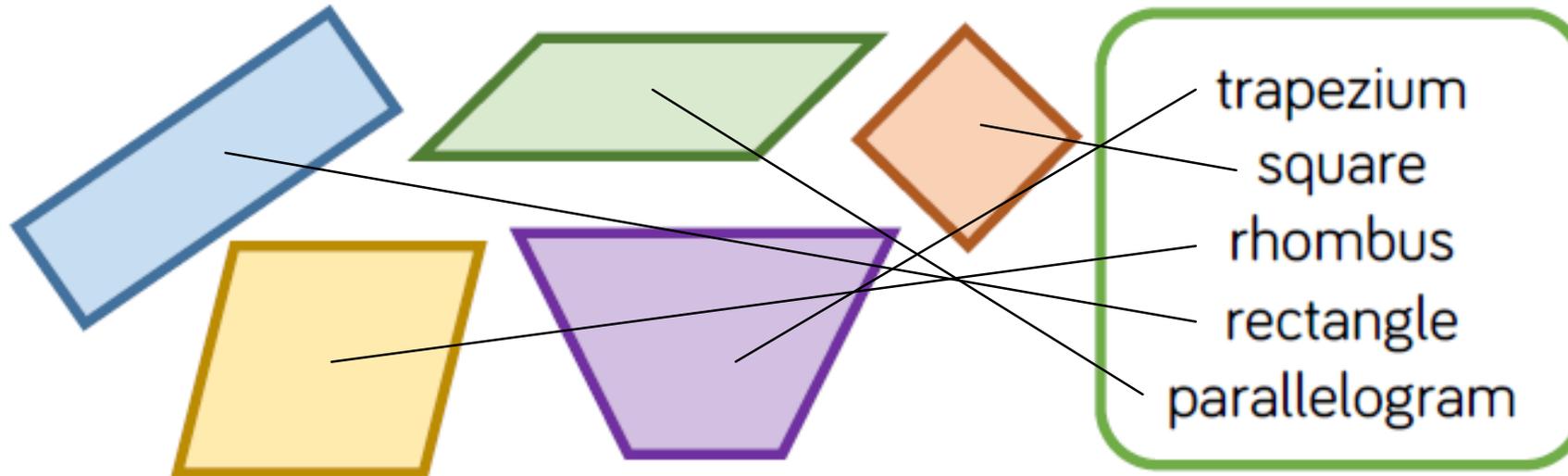
Label the quadrilaterals using the word bank.



trapezium
square
rhombus
rectangle
parallelogram

RECALL 2 answers

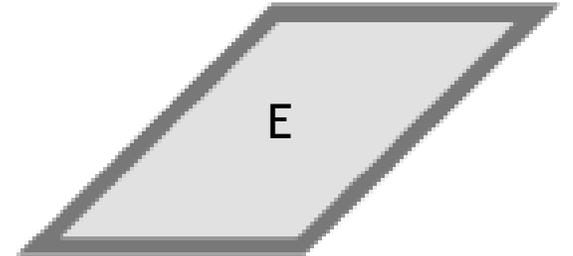
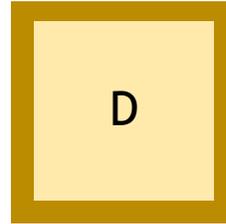
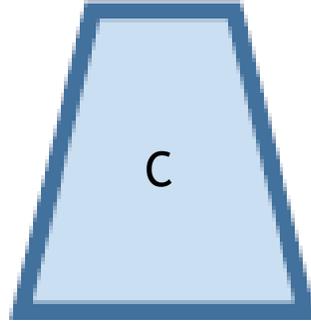
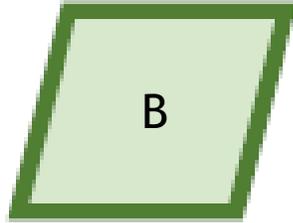
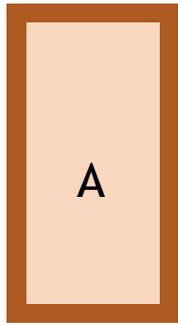
Label the quadrilaterals using the word bank.



A parallelogram has two pairs of parallel sides. It looks a bit like a rectangle that's been blown over in the wind!

A rhombus has four sides the same length, but isn't a square because it doesn't have any right angles. They look like diamonds.

INTELLIGENT PRACTICE



- ▶ ONE CHILLI: Name each shape
- ▶ TWO CHILLIES: Label the angles in each shape with either obtuse, acute or right angle
- ▶ THREE CHILLIES: Use these criteria to describe the shapes:

four sides

2 pairs of parallel sides

four equal sides

polygon

1 pair of parallel sides

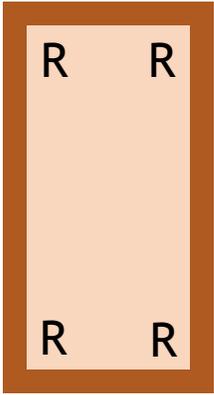
4 right angles

CAROLINA REAPER: Can you add any more properties to the shapes?

INTELLIGENT PRACTICE answers

O = obtuse angle
A = acute angle
R = right angle

Rectangle



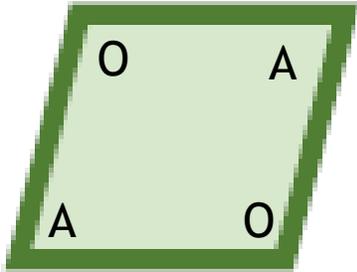
4 sides

2 pairs of parallel sides

Polygon

4 right angles

Rhombus



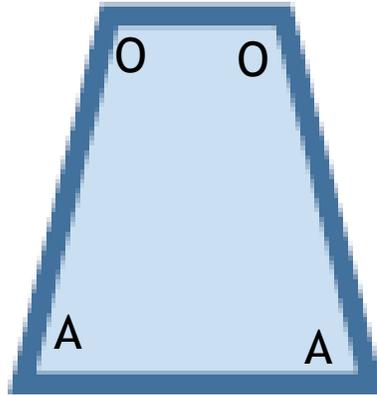
4 sides

2 pairs of parallel sides

4 equal sides

Polygon

Trapezium

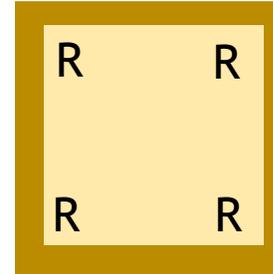


4 sides

1 pair of parallel sides

Polygon

Square



4 sides

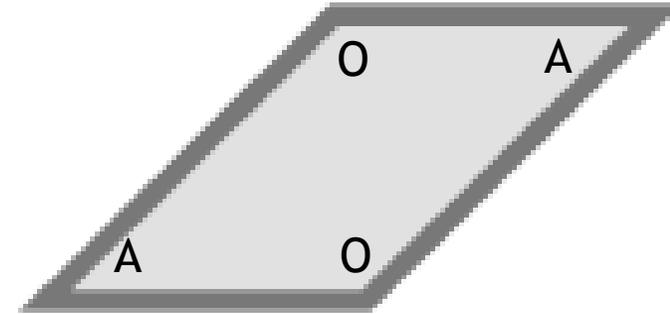
2 pairs of parallel sides

4 equal sides

Polygon

4 right angles

Parallelogram



4 sides

2 pairs of parallel sides

polygon

DIVE DEEPER 1

Complete each of the boxes in a table with a different quadrilateral.

	4 equal sides	2 pairs of equal sides	1 pair of parallel sides
4 right angles			
No right angles			

Which box cannot be completed?
Explain why.

DIVE DEEPER 1

answer

	4 equal sides	2 pairs of equal sides	1 pair of parallel sides
4 right angles	 square	 rectangle	
No right angles	 rhombus	 parallelogram	 trapezium

The top right box cannot be completed because there are no shapes with 4 right angles and 1 pair of parallel sides.

Squares and rectangles both have 4 right angles, but they both have 2 pairs of parallel sides.

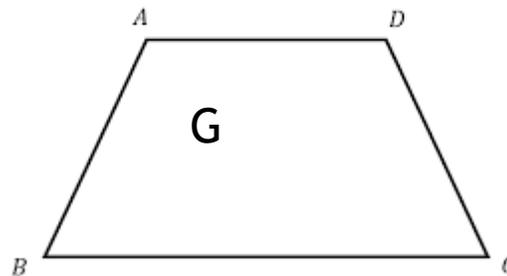
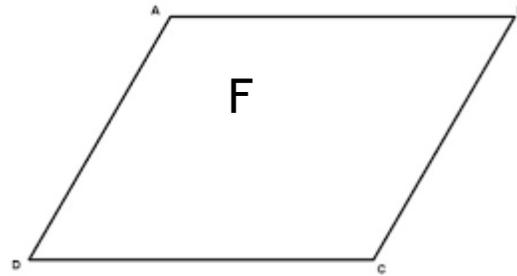
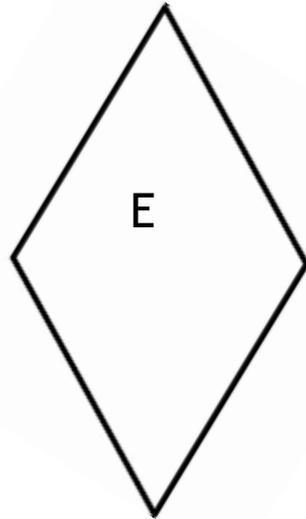
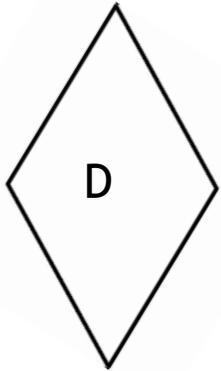
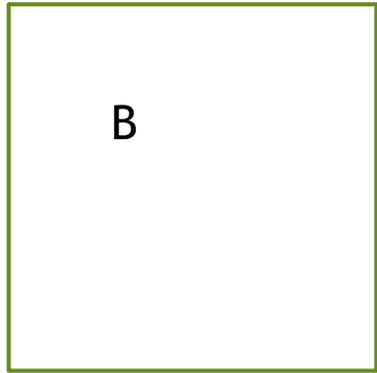
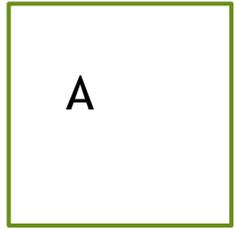
Which box cannot be completed?

Explain why.

DIVE DEEPER 2

- ▶ You will need some straws cut to 4 centimetres and some straws cut to 6 centimetres. If you don't have any, don't worry - you can print the straws from the sheet and cut them out.
- ▶ How many different quadrilaterals can you make?
- ▶ What is the perimeter of each shape?

DIVE DEEPER 2 answers

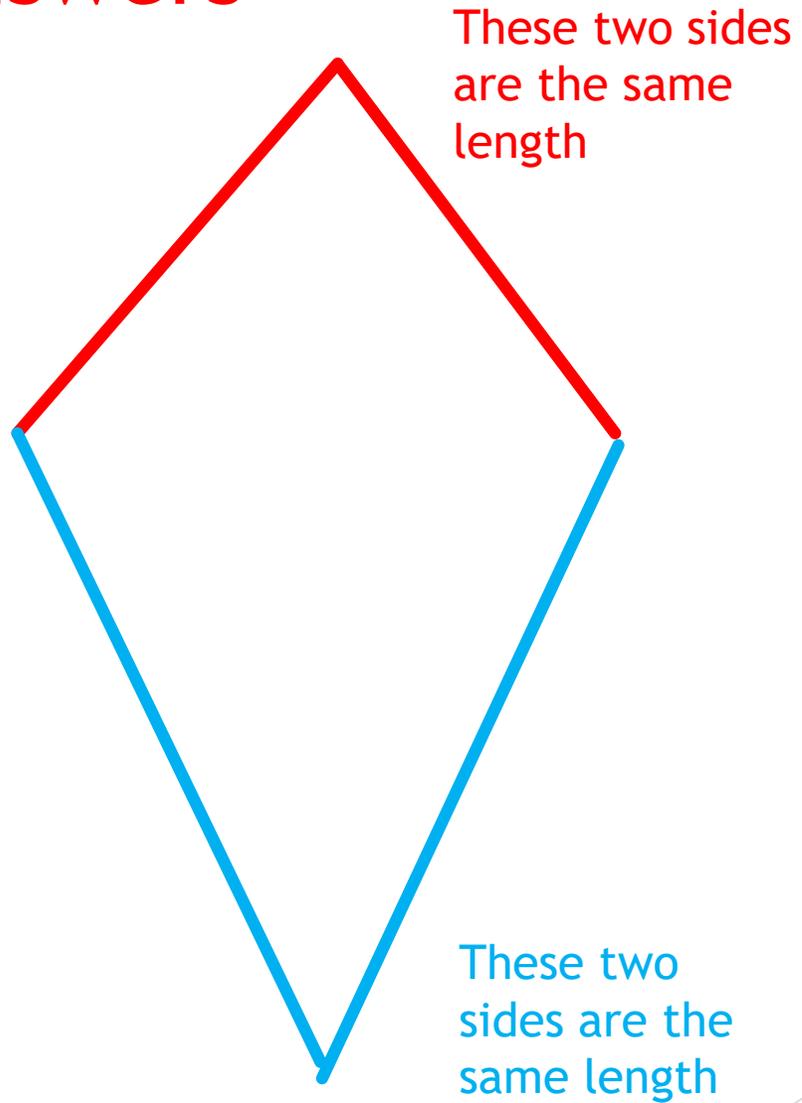


- A **Square:** Four 4 cm - perimeter is 16 cm or four 6 cm - perimeter is 24 cm
- B **Rectangle:** Two 4 cm and two 6 cm - perimeter is 20 cm
- C **Rhombus:** Four 4 cm - perimeter is 16 cm
- D **Four 6 cm straws-** perimeter is 24 cm
- E **Parallelogram:** Two 4 cm and two 6 cm - perimeter is 20 cm
- F **Trapezium:** Three 4 cm and one 6 cm - perimeter is 18 cm

DIVE DEEPER 3

- ▶ There is one other quadrilateral that we haven't seen yet today: the kite.
- ▶ Can you draw a kite using a ruler and describe it?
- ▶ How is it the same as the other quadrilaterals? How is it different?
- ▶ How many sides of equal length does it have?
- ▶ What kind of angles does it have?
- ▶ Does it have any parallel sides?

DIVE DEEPER 3 answers



No parallel sides

Self assessment - how did you do?

- ▶ SOME WILL EVEN use their knowledge and vocabulary of quadrilaterals to draw and describe a kite (DD3)
- ▶ SOME will make every possible quadrilateral from lines of two lengths (DD2)
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- ▶ ALL will name and describe quadrilaterals using mathematical vocabulary (IP)