Week 8, Day 5 **Sort quadrilaterals**

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

- Start by reading through the Learning Reminders. They come from our *PowerPoint* slides. 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 Sketch a line from 2.3 to 2.4. Write a number that goes between 2.3 and 2.4.
- Tackle the questions on the Practice Sheet. 2. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

1.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

Have I mastered the topic? A few questions to 4. Check your understanding. Fold the page to hide the answers!



Iden	tify the value of the '4' in the following numbers:
(a)	3.407
(b)	4.821
(c)	0.043
(d)	5.104
(e)	48,739
łow	many times must Dan multiply 0.048 by 10 to get 48,00
W/ba	t number is one hundred times smaller than 0.42





Learning Reminders



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Learning Reminders



Learning Reminders









What to do:

Use these clues to guess the quadrilateral:

- I have 4 right angles.
 I have two pairs of sides the same length.
 Who am I?
- 2. I have four sides the same length.
 I have two pairs of parallel sides.
 I have no right angles. I have two acute angles and two obtuse angles.
 Who am I?
- 3. I have one pair of parallel sides.
 I have no sides the same length.
 I have two acute angles and two obtuse angles.
 Who am I?
- 4. I have two pairs of parallel sides.
 I have two pairs of sides the same length.
 I have no right angles. I have two acute angles and two obtuse angles.
 Who am I?

S-t-r-e-t-c-h: Write your own clues for the quadrilateral that is left over...

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Check your understanding: Questions

True or false?

- A triangle cannot have two right angles.
- A triangle with one right angle cannot be isosceles.
- A quadrilateral cannot have *exactly* three right angles.
- A quadrilateral can always be divided into two triangles by drawing just one straight line.

Sketch the following:

- (a) A triangle with one obtuse angle.
- (b) A quadrilateral with two obtuse angles.
- (c) A triangle with three sides of identical length.
- (d) A quadrilateral that has two lines of symmetry but no right angles.
- (e) A quadrilateral with two pairs of parallel lines but no right angles.

Answers on the next page

Check your understanding: Answers

True or false?

- A triangle cannot have two right angles. True. Since the 3 angles must add to 180°, if two are right angles there is nothing left for the third angle.
- A triangle with one right angle cannot be isosceles.
 False, a right angled isosceles triangle has one angle of 90° and two of 45°.
- A quadrilateral cannot have *exactly* three right angles. True since then the fourth would also be a right angle, as the total is 360°.
- A quadrilateral can always be divided into two triangles by drawing just one straight line. True the line will join a pair of opposite corners.

Sketch the following:

- (a) A triangle with one obtuse angle.
- (b) A quadrilateral with two obtuse angles.
- (c) A triangle with three sides of identical length.
- (d) A quadrilateral that has two lines of symmetry but no right angles.
- (e) A quadrilateral with two pairs of parallel lines but no right angles.

Many different examples are possible. Check that the drawings meet criteria – in the case of (d) and (e) two different aspects need to be considered. They should be drawn using a ruler and sharp pencil to draw accurately. Often mistaken drawings will be the result of not understanding the vocabulary.