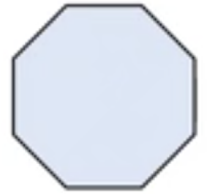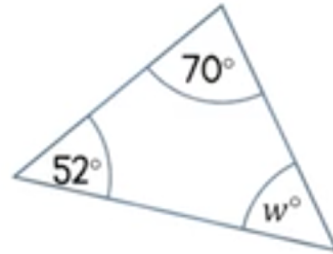# Year 6

Tuesday 28th April 2020

Maths

LO: angles in quadrilaterals.

A video of the lesson is available here.
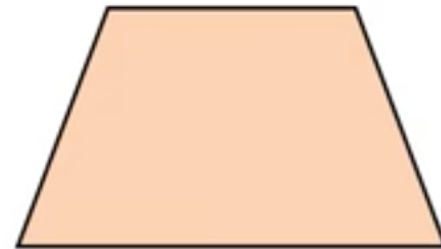Week 2 - Lesson 1

This link will only work on the PDF or link above this power point.

1) Work out the missing angle in the triangle.

70°

52°

w°

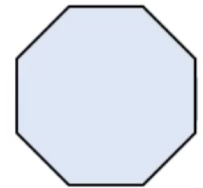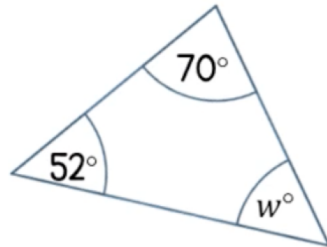2) How many obtuse angles does this trapezium have?
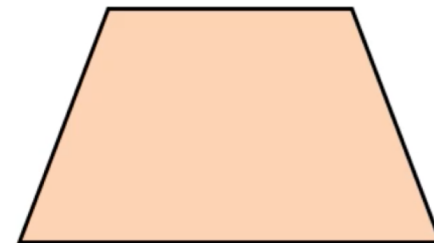
3) Riddle of the Day:

Why do skeletons go on holiday alone?

4) How many millimetres are there in a metre?

White Rose

octagon

1) Work out the missing angle in the triangle.

70°

52°

$w°$

58°

2) How many obtuse angles does this trapezium have?

2

3)

Riddle of the Day:

Because it has no-body to go with!

4) How many millimetres are there in a metre?   1,000

White Rose Maths

Independent work

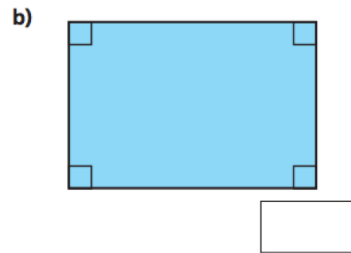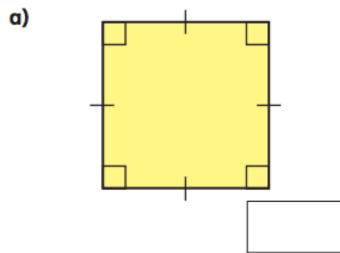Independent work continues on the following slide.

There are questions 1-4 and 3 extension questions.
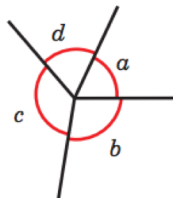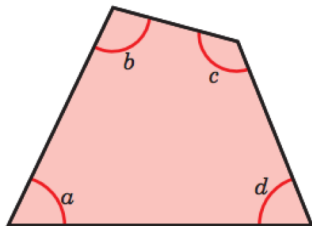
Angles in special quadrilaterals

1 Work out the sum of the angles in each shape.

a)

b)

What do you notice?

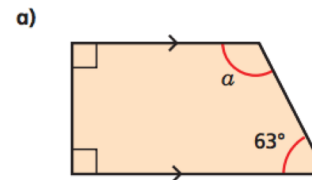**2** The diagrams show the four vertices of a quadrilateral arranged around a point.

What do the diagrams illustrate about the sum of the angles in a quadrilateral?
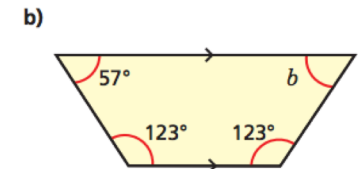
Complete the sentence.

Angles in a quadrilateral _____

3 Work out the size of the unknown angle in each trapezium.

a)
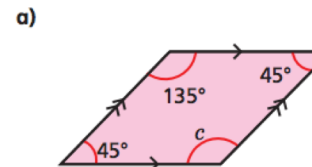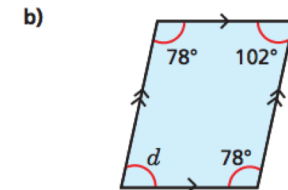
b)

$a =$ [   ] $b =$ [   ]

c) What is the same and what is different about the trapeziums?

4 Work out the sizes of the unknown angles.

a)

b)

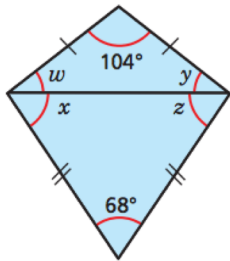$c =$ [   ] $d =$ [   ]

c) What do you notice about opposite angles in a parallelogram?

_____

Two isosceles triangles are joined to form a kite.

a) Work out the sizes of the unknown angles.

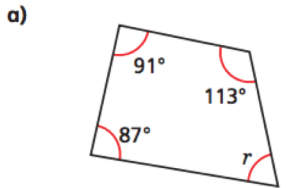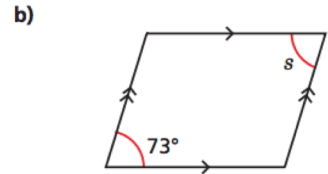$w =$ ☐ $y =$ ☐ $x =$ ☐ $z =$ ☐

b) Work out $w + x$.

☐

c) Work out $y + z$.
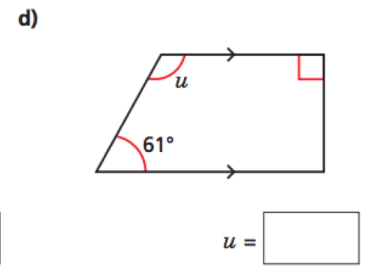
☐

What do you notice? Talk about it with a partner.

Work out the sizes of the unknown angles.

a)

b)

$r =$ ☐

$s =$ ☐

c)

$t =$ ☐

d)

$u =$ ☐
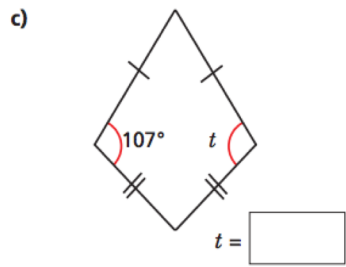
Compare your reasoning with a partner.

Teddy is drawing a quadrilateral.

My quadrilateral has exactly three right-angles.
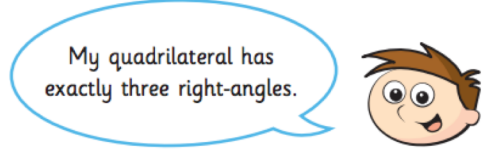
Is Teddy's quadrilateral possible? _____

Explain your answer.

_____

_____