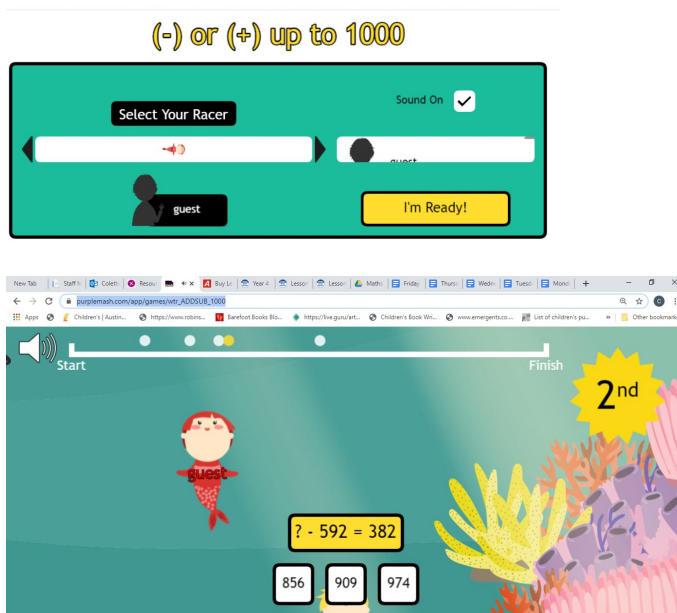


Thursday 9th July 2020

WALT identify quadrilaterals

Mental Starter: You can calculate the answer or use estimation and mathematical reasoning to play this game.

https://www.purplemash.com/app/games/wtr_ADDSUB_1000



Look at the example above

Remember, to find the missing number in this number sentence, you add the two known values. You could use a written method, but I would use a mental method.

My Mental Method

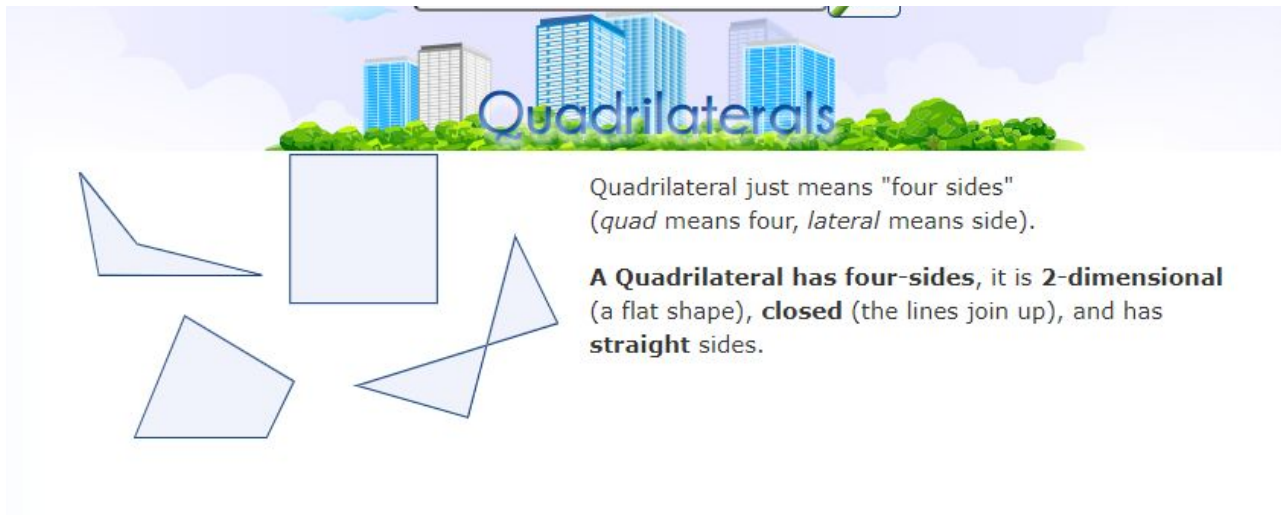
First, I would round 592 up to 600, because it makes it easier to add.

$$600 + 382 = 982$$

I know that 974 is the answer, because it is the closest to 982.

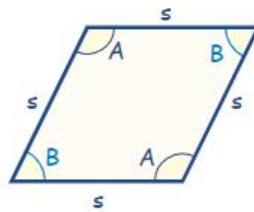
MAIN LESSON

What is a Quadrilateral?



Learn about the properties of two quadrilaterals below - the rhombus and the trapezium.

The Rhombus

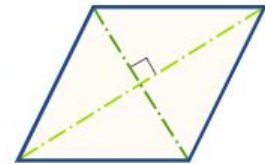


A **rhombus** is a four-sided shape where all sides have equal length (marked "s").

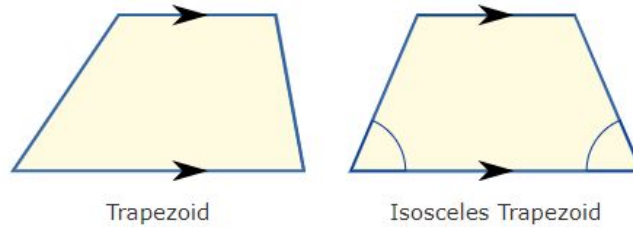
Also opposite sides are parallel *and* opposite angles are equal.

Another interesting thing is that the diagonals (dashed lines) meet in the middle at a right angle. In other words they "bisect" (cut in half) each other at right angles.

A rhombus is sometimes called a **rhomb** or a **diamond**.



The Trapezoid (UK: Trapezium)



A **trapezoid** (called a trapezium in the UK) has a pair of opposite sides parallel.

And a **trapezium** (called a trapezoid in the UK) is a quadrilateral with NO parallel sides:

	Trapezoid	Trapezium
In the US:	a pair of parallel sides	NO parallel sides
In the UK:	NO parallel sides	a pair of parallel sides

(the US and UK definitions are swapped over!)

An **Isosceles** trapezoid, as shown above, has left and right sides of equal length that join to the base at equal angles.

Click this link: <https://www.mathsisfun.com/quadrilaterals.html> to learn more about the properties of quadrilaterals.

MAIN LESSON CONTINUED

Watch the video - Year 4 (w/c 9th July) Lesson 4.

<https://whiterosemaths.com/homelearning/year-4/>

After watching the video you will need to scroll down to the link below to complete the worksheet.

Lesson 4 - Quadrilaterals

I have 4 right angles.
You can calculate my perimeter if I tell you the length of one side.

I have 4 straight sides.

All my sides are equal.
I have no right angles.

I have one pair of parallel sides and one of my sides are equal.

Have a go

Quadrilateral

Rhombus

Square

Trapezium

Complete the worksheet:

<https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-4-Quadrilaterals.pdf>

Remember, you can watch the video again if you get stuck.

Now check and correct your answers.

Answers to worksheet:

<https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-4-Answers-Quadrilaterals.pdf>

If you want further help (or more practice!), you can go to the Maths lesson on BBC Bitesize where you will find videos, activities and games:

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-and-p5-lessons>