



# Maths Week Station Challenge Tuesday Oct 19th

5th Class

8 stations with problems, students in groups of 3? 1 answer sheet for each group, students need ruler and pencil, meter sticks for perimeter/area challenge in courtyard - Prizes for attempts and effort

1. Maths eyes problems - maybe 3 or 4 -  
[https://drive.google.com/drive/folders/1LENAnZI9Jde3PRIB4HyRkvSE37h80S6-?usp=s\\_haring](https://drive.google.com/drive/folders/1LENAnZI9Jde3PRIB4HyRkvSE37h80S6-?usp=s_haring)
2. Length and money problem - Wes needs your help
3. Circle - using tree stump, string, ruler - measure the circumference, radius, diameter, how old was the tree
4. Area/Perimeter - courtyard problem - measure the perimeter/area of the flower bed
5. Match sticks problem
6. Money - Value for money - Trish needs your help

# Wes Needs your help :)

During the Halloween Holidays a terrible storm swept through Bayside. The new school roof has been badly damaged and there is a big hole in the roof. Wes measured the hole and thinks it is about 3.5m<sup>2</sup>.

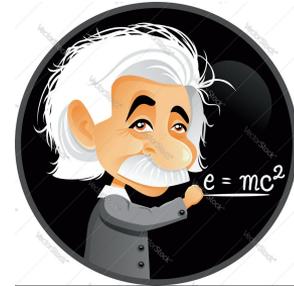
Wes has to go to Grange Builders in Baldoyle to buy patches and glue to fix the roof. Can you help him work out how much it will cost?

1 patch covers 1m<sup>2</sup> (square meter) and costs €25.00

1 tube of glue is needed for each patch and costs €5.00

Questions:

1. How much will it cost to repair the roof?
2. How much change will Wes have out of €200?
3. Will there be any materials left over when he is finished? How much?



# Measuring a Circle



Read the information under the picture of the tree stump and then examine the tree stump on the table.

Question Time!

1. Estimate how old you think the tree is?
2. Using the string, what is the circumference of the stump?
3. Can you figure out the radius?
4. Can you figure out the diameter of the tree stump?



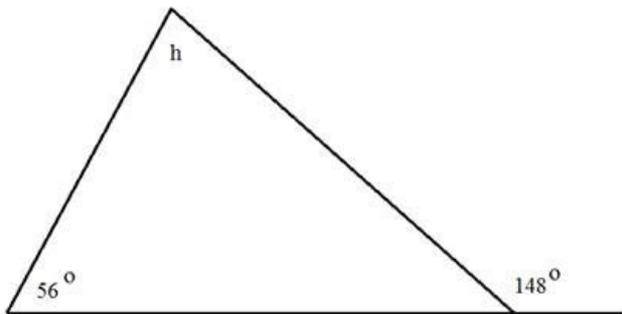
**Interesting Fact! Dendrochronology**  
You can tell how old a tree is by counting the all the circles in the tree stump! Start in the middle and work your way out to the bark on the outside

# Maths eyes in our courtyard

## -Lines and Angles

List examples of the following angles that you can see in our courtyard:

- 5 examples of where you see a right angle?
- Can you find any examples of obtuse angles? - list 2
- Can you find any examples of acute angles? List 2



**Bonus question**

**Write in answers  
on your answer  
sheet!**



# Area and Perimeter

Using the meter sticks and rulers provided, try and calculate the **area and the perimeter** of the marked plot in the courtyard.

**Extra challenge!** How much would it cost to put down artificial grass in the plot?

1 sqm of artificial grass cost €20

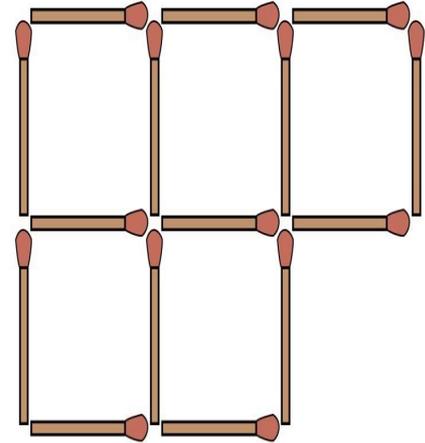


Find the marked plot in the courtyard

# Matchstick puzzles!

When you have the puzzles completed tell your teacher so they can check to see if you are correct !

Remove 3 matches to leave 3 squares



# Money..

## Mrs Gleeson needs your help!

Mrs. Gleeson really wants to reopen the School Shop :) The problem is....

She has no stock left because all the teachers..ahem... 

Calculate how much it would cost Mrs. Gleeson to buy the following items:

- 10 PACKS OF WRITING COPIES @€4.75 PER PACK
- 10 PACKS OF SUMS COPIES @€4.75 PER PACK
- 5 BOXES OF PENS @ €3.00 EACH
- 5 BOXES OF RULERS @€2.25 EACH
- 50 RULERS @€2.00 EACH

How much has Mrs. Gleeson spent in total?

