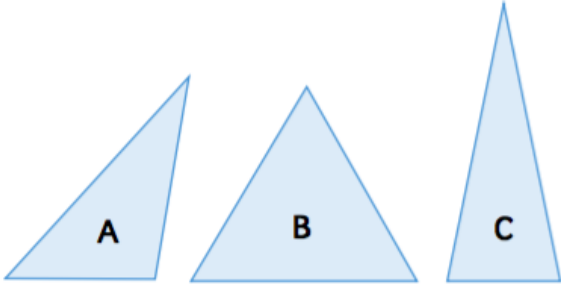
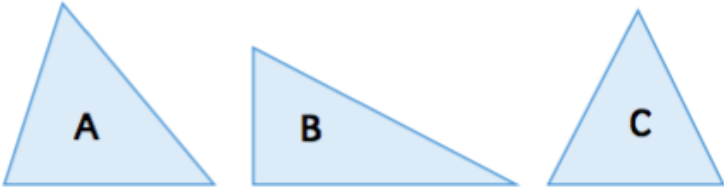
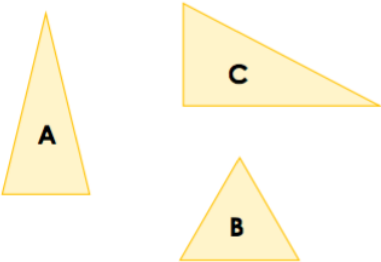
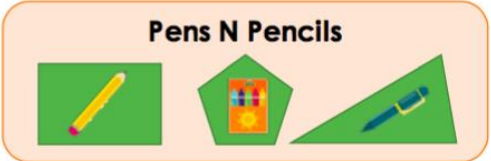
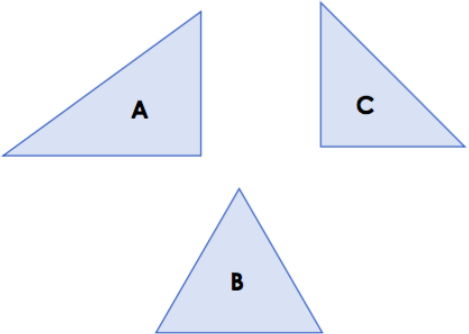


Green Properties of triangles

Which is the isosceles triangle? 	Which is the scalene triangle? 
Match the triangle to the type. Right angled Scalene Isosceles Equilateral 	Delia is designing a logo for the flower shop.  She says,  The logo includes a scalene triangle. Is she correct? Explain your answer.
Marshall is designing a logo for the stationary stall he is setting up.  He says,  The logo includes a right angled triangle. Is he correct? Explain your answer.	Which statements are true? A. Connecting ABC will make an equilateral triangle. ☐ B. Connecting DEF will make a scalene triangle. ☐ C. Connecting GHI will make an isosceles triangle. ☐ B • A • E • C • H • D • F • G • I •
Which triangle is the odd one out?? Explain your reasoning. 	Which triangles could you make using these lines? Equilateral ☐ Isosceles ☐ Scalene ☐ A _____ B _____ C _____ D _____

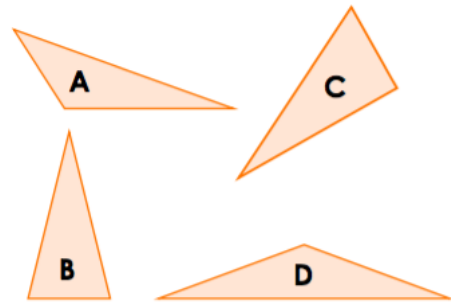
Yellow Properties of triangles

What is the same and what is different about these triangles?

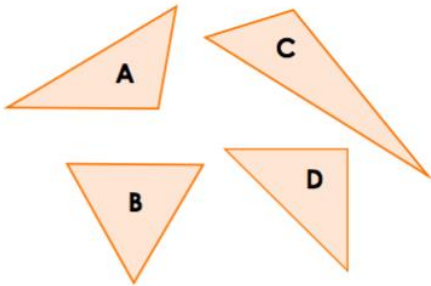


What is the name of each triangle?
What do you know about it?

Can you find the isosceles triangles?



Can you find the scalene triangles?



Copy the table and sort the triangles.

Scalene	Isosceles	Equilateral

Holly is designing a logo for a car park.



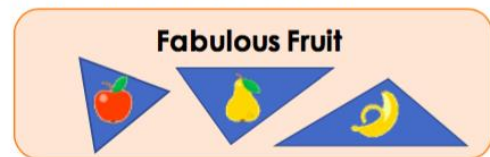
She says,



The logo includes no scalene triangles.

Is she correct? Explain your answer.

Kylie is designing a logo for a fruit stall she wants to run at her school.



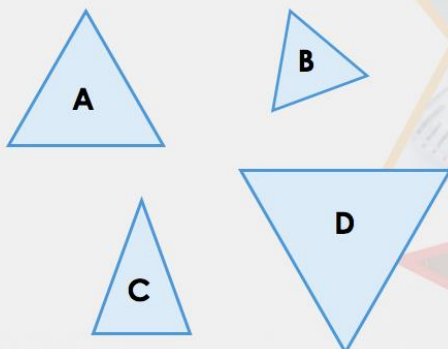
She says,



The logo includes only equilateral triangles.

Is she correct? Explain your answer.

Which triangle is the odd one out?
Why?



True or false? Connecting these dots will create a right angled triangle.



Red Properties of triangles

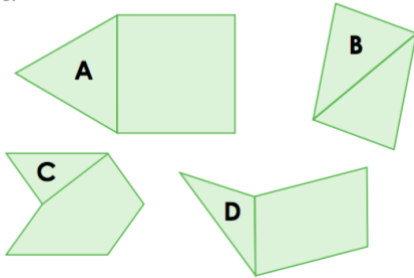
Match the triangle to its type.

Right angled

Scalene

Isosceles

Equilateral



Which statement is true?

A. Connecting ABC will make a scalene triangle. ☐

B. Connecting ACE will make an isosceles triangle. ☐

C. Connecting ADE will make an equilateral triangle. ☐

• D

C •

A •

B •

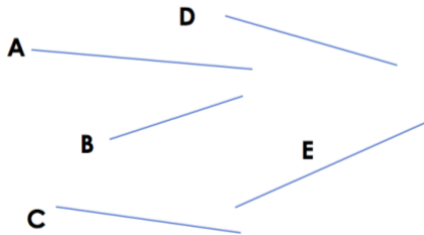
• E

Which triangles could you make using these lines?

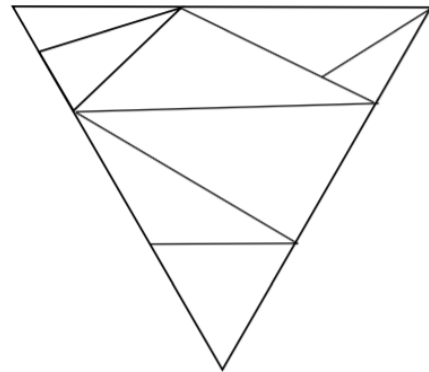
Equilateral ☐

Isosceles ☐

Scalene ☐



Can you find the triangles that are not equilateral?



Draw a rectangle that has a perimeter of 34cm.

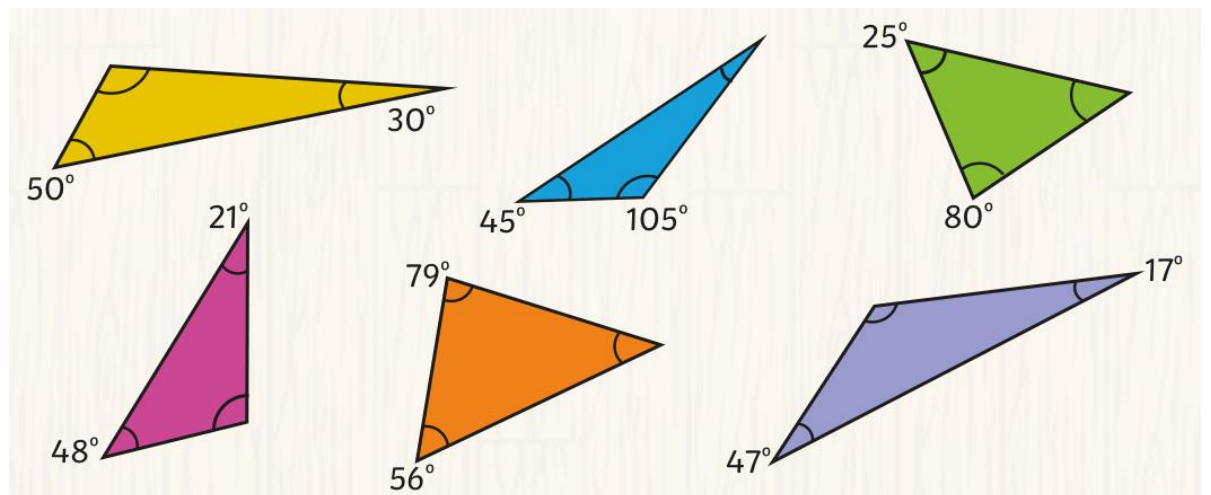
Explore the different possible ways that you could create different types of triangles within it.

Your shape must include at least one of each type of triangle (right-angled, isosceles, equilateral and scalene) and have a maximum of 6 individual triangles.

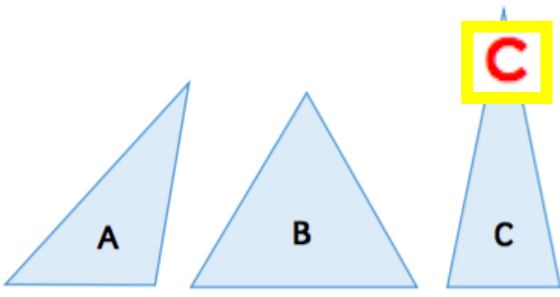
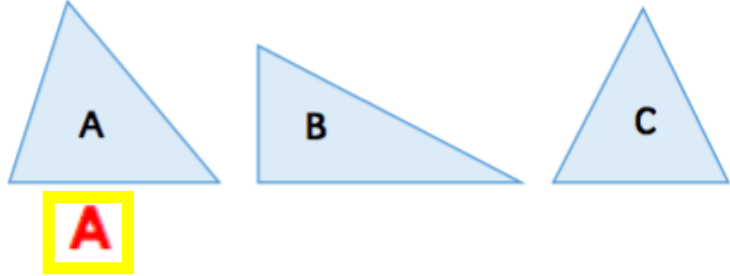
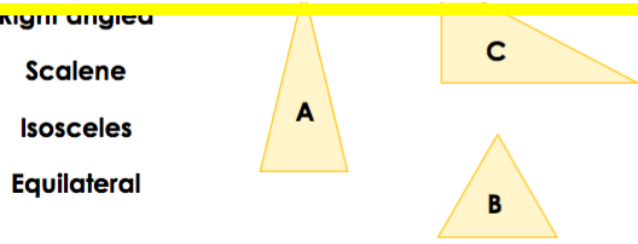
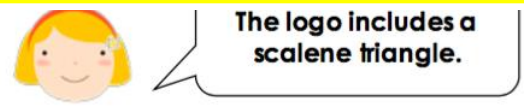
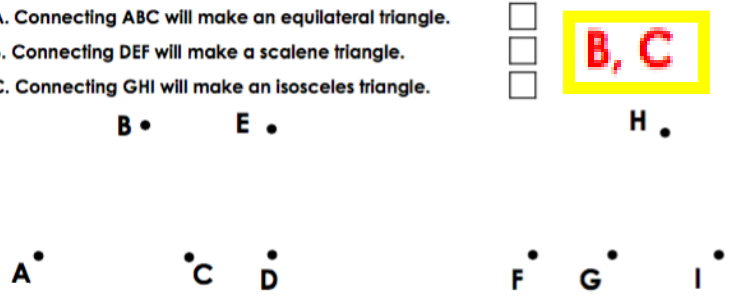
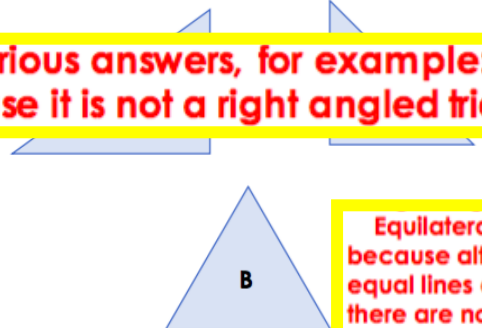


Use a ruler to measure your lines carefully.

Calculate the unknown angle for each triangle. Remember the angles within a triangle add up to 180 degrees.



Green Answers Properties of triangles

Which is the isosceles triangle? 	Which is the scalene triangle? 
Match the triangle to the type. Right angled – C; Scalene: C; Isosceles – A; Equilateral – B 	Delia is designing a logo for the flower shop.  Yes, because the triangle on the left has three sides of different lengths.  Is she correct? Explain your answer.
Marshall is designing a logo for the stationary stall he is setting up. No because the only triangle does not include any right angles.  Is he correct? Explain your answer.	Which statements are true? A. Connecting ABC will make an equilateral triangle. ☐ B. Connecting DEF will make a scalene triangle. ☐ C. Connecting GHI will make an isosceles triangle. ☐ B, C 
Which triangle is the odd one out?? Explain your reasoning. Various answers, for example: B because it is not a right angled triangle. 	Which triangles could you make using these lines? Equilateral ☐ Isosceles ☐ Scalene ☐ A _____ B _____ C _____ Equilateral – ticked because there are three equal lines of 2cm. Isosceles – not ticked because although there are two equal lines and a third line of a different length, the equal lines are too short in comparison to the third line. Scalene – not ticked because there are not three different length lines.

Yellow Answers

Properties of triangles

What is the same and what is different about these triangles?

Answers might include: different colours, different sizes, different shapes, all have 3 sides etc.



Isosceles
Has 2 sides of equal length.



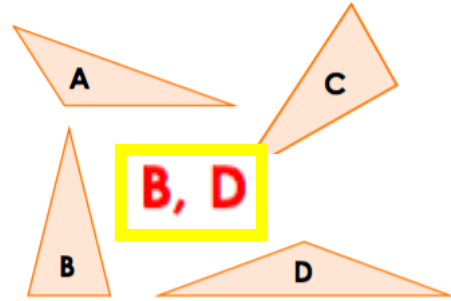
Equilateral
Has 3 sides of equal length.



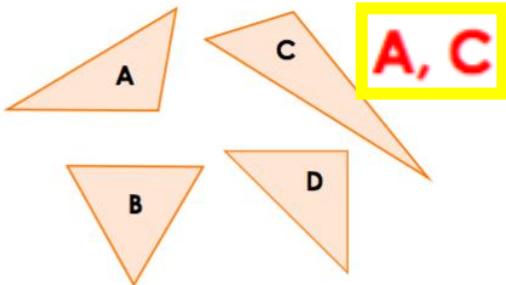
Scalene
Has 0 sides of equal length.

What is the name of each triangle?
What do you know about it?

Can you find the isosceles triangles?



Can you find the scalene triangles?



Copy the table and sort the triangles.

Scalene	Isosceles	Equilateral

Holly is designing a logo for a car park.



She says,



The logo includes no scalene triangles.

Is she correct? Explain your answer.

Yes because the left and right triangles are isosceles because they have 2 equal sides and the middle triangle is equilateral because it has 3 equal sides.

Kylie is designing a logo for a fruit stall she wants to run at her school.

No because there is only one equilateral triangle (with the apple on it).



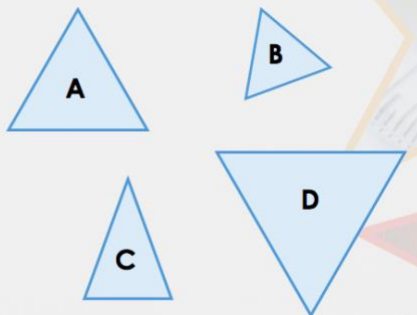
She says,



The logo includes only equilateral triangles.

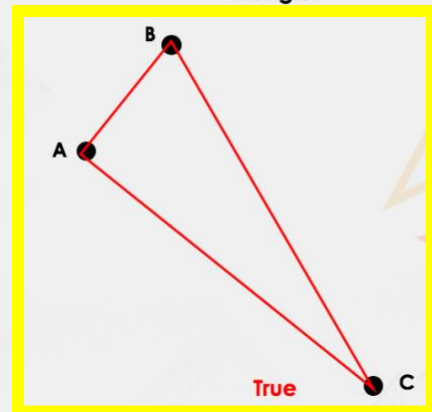
Is she correct? Explain your answer.

Which triangle is the odd one out?
Why?



C because it is the only isosceles triangle.
The rest are equilateral.

True or false? Connecting these dots will create a right angled triangle.



Red Answers

Properties of triangles

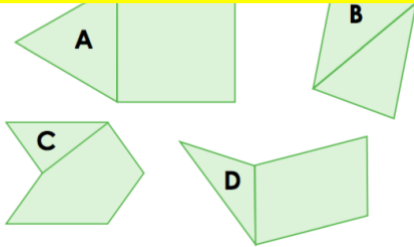
Right angled – C; Scalene: B, C; Isosceles – D; Equilateral – A

Right angled

Scalene

Isosceles

Equilateral



A. Connecting ABC will make a scalene triangle. ☐

B. Connecting ACE will make an isosceles triangle. ☐

C. Connecting ADE will make an equilateral triangle. ☐

Which statement is true?

• D

C

A •

C

B •

• E

Equilateral – not ticked because all of the lines are different lengths. Isosceles – not ticked because all of the lines are different lengths. Scalene – ticked because all of the lines are different lengths.

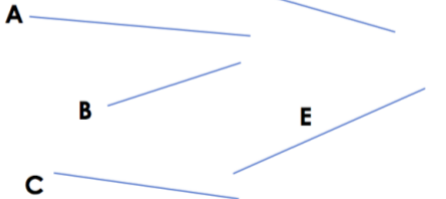
Equilateral

☐

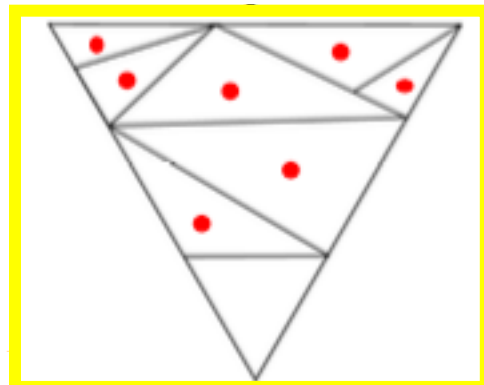
Isosceles

☐

Scalene

☐


Can you find the triangles that are not equilateral?



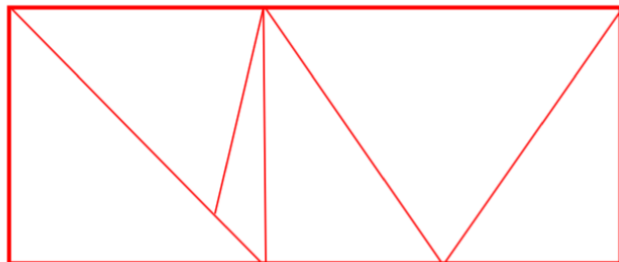
Draw a rectangle that has a perimeter of 60.

Explore the different possible ways to divide a rectangle into different types of triangles within it.

Your shape must include at least one right-angled triangle (right-angled, isosceles, equilateral) and a maximum of 6 individual triangles.

Use a ruler to measure your lines carefully.

Various possible answers, for example:



Calculate the unknown angle for each triangle. Remember the angles within a triangle add up to 180 degrees.

