Homework/Extension
Step 3: Triangles

National Curriculum Objectives:

Mathematics Year 4: (4G2a) Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Tick the true statements involving separate triangles drawn from three sets of 3 dots. All triangles presented with a horizontal base.
Expected Tick the true statements involving overlapping triangles drawn from 5 dots. All triangles presented with a horizontal base.
Greater Depth Tick the true statements involving overlapping triangles drawn from 5 dots. Triangles presented in different orientations.

Questions 2, 5 and 8 (Varied Fluency)
Developing Match three triangles to the appropriate types (right angled, scalene, isosceles, equilateral). All triangles presented with a horizontal base.
Expected Match four triangles to the appropriate types (right angled, scalene, isosceles, equilateral). Most triangles presented with a horizontal base.
Greater Depth Match four triangles to the appropriate types (right angled, scalene, isosceles, equilateral). Triangles presented in different orientations; triangles presented in other shapes.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing When given 4 horizontal lines of whole cm length, explain which types of triangles could be made.
Expected When given 5 mostly horizontal lines of lengths accurate to 5mm, explain which types of triangles could be made.
Greater Depth When given 5 lines of lengths accurate to 1mm and in various orientations, explain which types of triangles could be made.

More Year 4 Properties of Shape resources.

Did you like this resource? Don't forget to review it on our website.

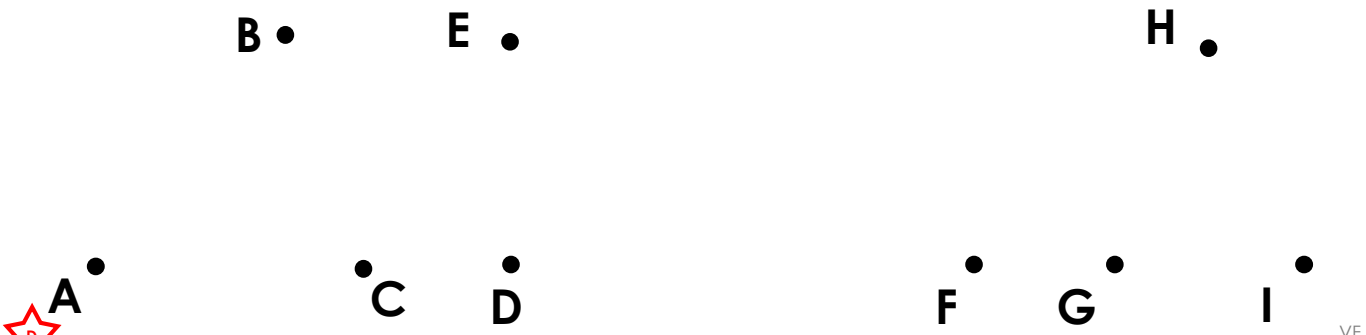
Triangles

1. Tick the true statements. You can use a ruler to help you.

A. Connecting ABC will make an equilateral triangle. ☐

B. Connecting DEF will make a scalene triangle. ☐

C. Connecting GHI will make an isosceles triangle. ☐



D

VF
HW/Ext

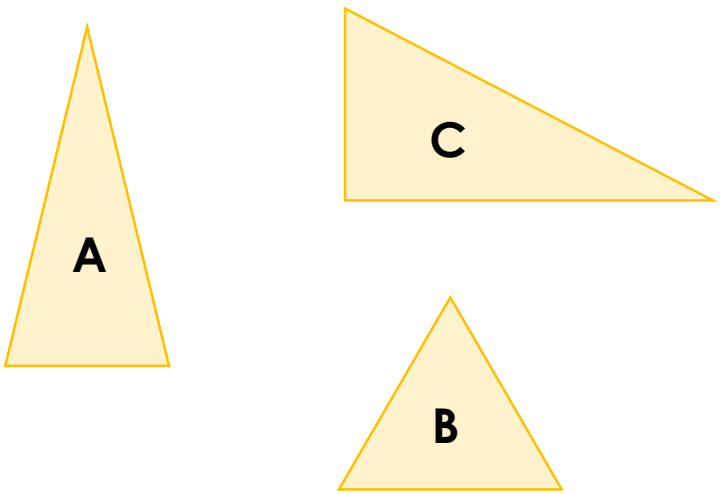
2. Match the triangle to its type.

Right angled

Scalene

Isosceles

Equilateral



D

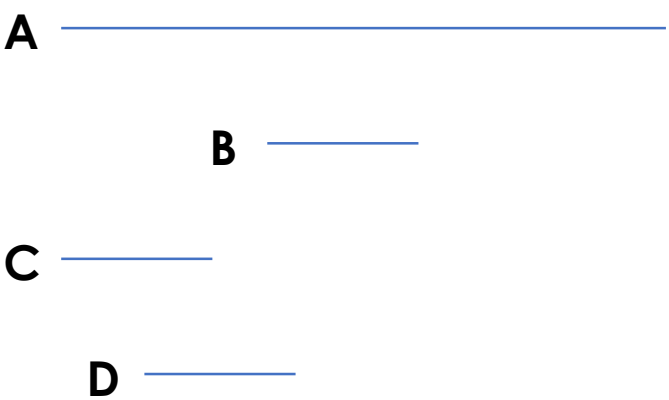
VF
HW/Ext

3. Tick the triangles which could be made using these lines. Convince me. You can use a ruler to help you.

Equilateral ☐

Isosceles ☐

Scalene ☐



D

RPS
HW/Ext

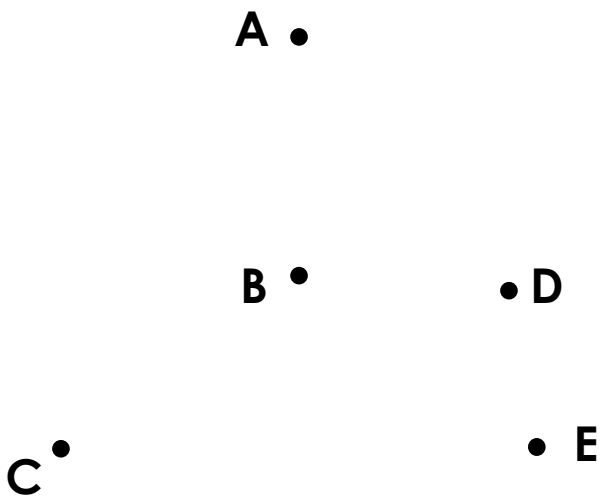
Triangles

4. Tick the statements which are true.

A. Connecting BCE will make an isosceles triangle. ☐

B. Connecting DCE will make a right angled triangle. ☐

C. Connecting ACE will make an equilateral triangle. ☐



E

VF
HW/Ext

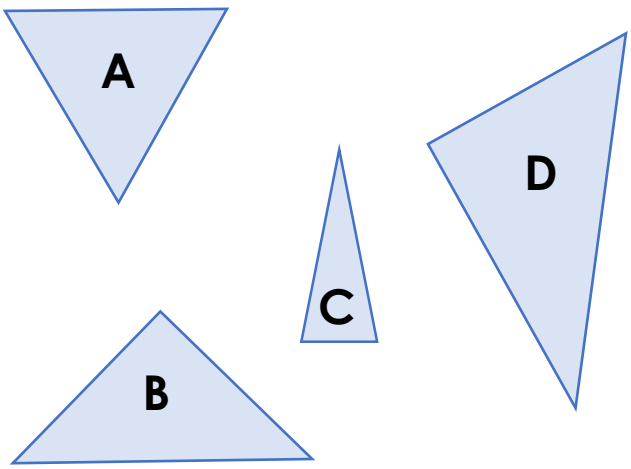
5. Match the triangle to its type.

Right angled

Scalene

Isosceles

Equilateral



E

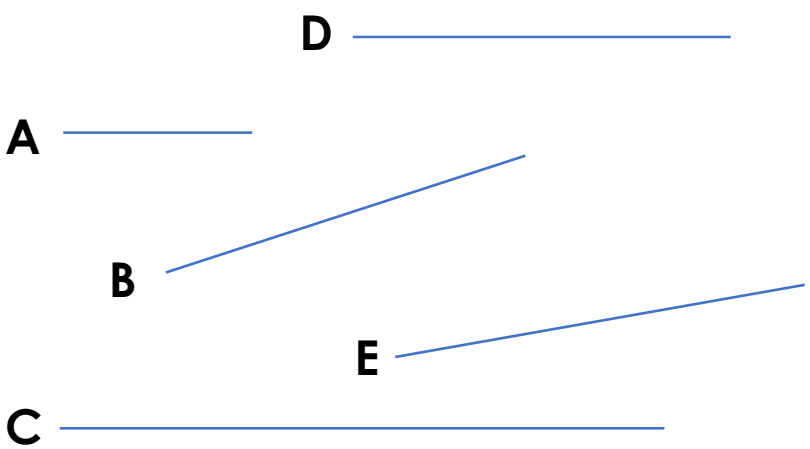
VF
HW/Ext

6. Tick the triangles which could be made using these lines. Convince me.

Equilateral ☐

Isosceles ☐

Scalene ☐

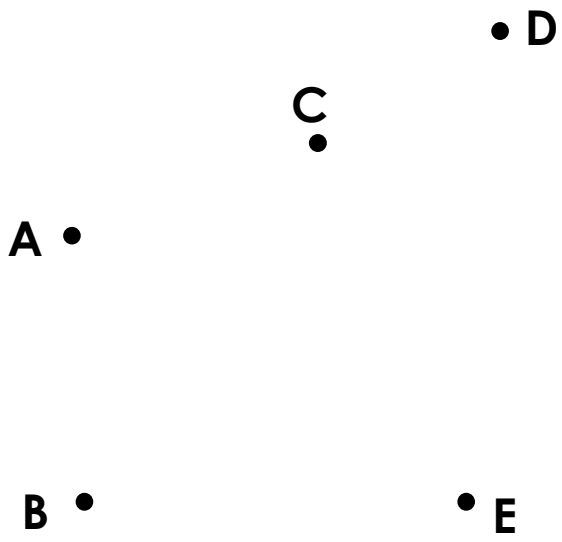


E

RPS
HW/Ext

Triangles

7. Tick the statements which are 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. ☐

GD

VF
HW/Ext

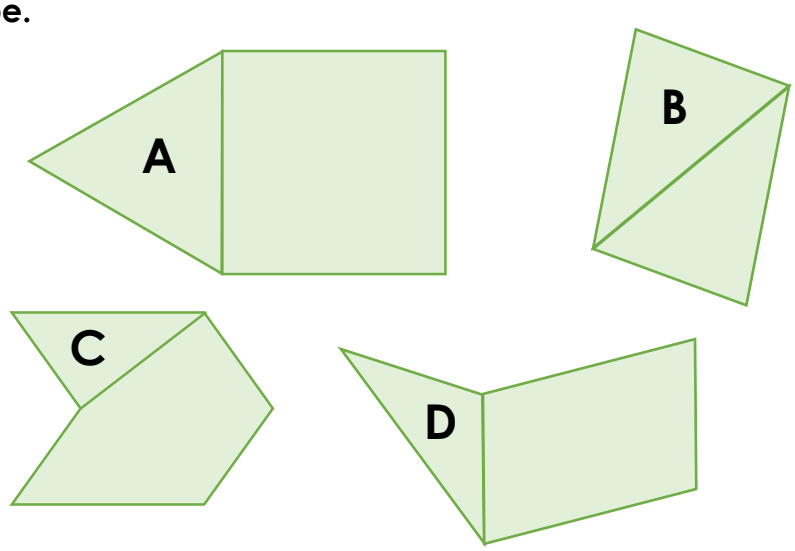
8. Match the triangle to its type.

Right angled

Scalene

Isosceles

Equilateral



GD

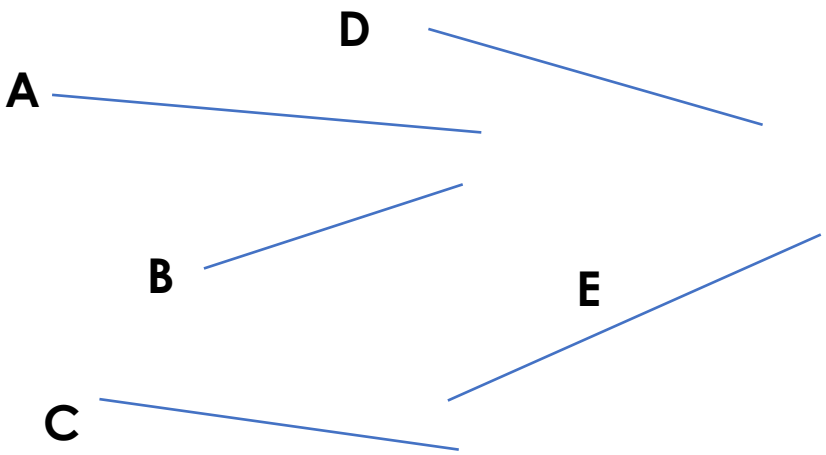
VF
HW/Ext

9. Tick the triangles which could be made using these lines. Convince me.

Equilateral ☐

Isosceles ☐

Scalene ☐



GD

RPS
HW/Ext

Homework/Extension
Triangles

Developing

1. B, C
2. Right angled – C; Scalene: C; Isosceles – A; Equilateral – B
3. 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.

Expected

4. A, C
5. Right angled – B, D; Scalene: D; Isosceles – B, C; Equilateral – A
6. Equilateral – not ticked because there are not three equal lines. Isosceles – ticked because there are two equal lines. Scalene – ticked because there are three lines of different lengths.

Greater Depth

7. C
8. Right angled – C; Scalene: B, C; Isosceles – D; Equilateral – A
9. 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.