At home materials

Pack 2: Triangles

Session A) Creating triangles
Session B) Triangle symmetry
Session C) Describing triangles
Session D) Angles in triangles
Talk Task: Creating triangles

Joining three points with straight lines will form a triangle.
Pack 2 Session A

**Activity:** Creating triangles

1) Use a ruler to join dots to create triangles. How many different ones can you make?

2) Describe the angles as acute, obtuse or right angle.
Pack 2 Session B

Talk Task: Triangle symmetry
Pack 2 Session B

**Activity:** Triangle symmetry

1) Draw on lines of symmetry. Name each shape as equilateral or isosceles and describe its symmetry.

![Triangle](image)

This is an ___________ triangle. It has ___________

This is an ___________ triangle. It has ___________

2) Are there triangles with two lines of symmetry? Are there triangles with no lines of symmetry? Use the space below to sketch and write your ideas.
Pack 2 Session C

Talk Task: Describing triangles
Pack 2 Session C
**Activity:** Describing triangles

1) Join dots to make different triangles. Write isosceles or scalene to describe each triangle.

2) Try to draw a triangle for each section of the table.

<table>
<thead>
<tr>
<th></th>
<th>Scalene</th>
<th>Isosceles</th>
<th>Equilateral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has a right angle</td>
<td></td>
<td></td>
<td>Not possible</td>
</tr>
<tr>
<td>No right angle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Pack 2 Session D

Talk Task: Angles in triangles
Pack 2 Session D

**Activity:** Angles in triangles

1) Calculate the size of each missing angle.

![Triangle with angles 70°, 70°, and 50°]

![Triangle with angles 54° and 46°]

![Triangle with angle 50°]

2) Write descriptions of two different ways to find the angles in this isosceles triangle. Write each angle in the triangles.

![Isosceles triangle with angles 50° and 50°]

____________________
____________________
____________________

____________________
____________________
____________________

3) This regular decagon is split into ten identical triangles. What information can you write about the triangle?

![Regular decagon split into triangles]