Name: Date:

Activity for group A

Sort the shapes according to the criteria on the Venn diagrams. Draw in, or cut out and stick in, the shapes into the correct place on the diagram.



**4 sides or less**

**5 corners or more**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  | |  | |

**Right angle**

**More than four corners**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  | |  | |
|  | |  | |

**Have equal sides**

**Less than five sides**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  | |  | |
|  | |  | |

**Activity for group B**

Draw a Venn diagram and label each circle with the properties that you are looking for in each example below. Then draw in, or cut out and stick in, the shapes that match the criteria that you are looking for.

**1st Venn diagram**

Less than five sides

Has a right angle

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

**2nd Venn diagram**

Has three sides

Has a right angle

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

**3rd Venn diagram**

Has four or more corners

Has a right angle

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

Activity for group C

**Teaching notes**

Print and cut out the following criteria and provide children with two criteria to sort their shapes. Provide hoops and shapes for the children to produce their own Venn diagrams.

|  |
| --- |
| Has a right angle |
| Has four sides |
| Has five sides or less |
| Has four corners |
| All have equal sides |
| Has no corners |

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Extension activity

**Properties of shapes**

Use the following instructions to draw shapes using Scratch . Try out some other shapes. Remember, in order to work out the angle that Scratch has to turn, divide 360 degrees by how many sides the shape has.

|  |
| --- |
| **Square** – four sides of 100 steps, four right angles |
| **Pentagon** – five sides of 30 steps, five angles of 72 degrees |
| **Hexagon** – six sides of 45 steps, six angles of 60 degrees |
| **Octagon** – eight sides of 60 steps, eight angles of 45 degrees |

