Varied Fluency Step 8: Regular and Irregular Polygons

National Curriculum Objectives:

Mathematics Year 5: (5G2b) <u>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</u>

Differentiation:

Developing Questions to support being able to distinguish between regular and irregular polygons. Using regular and irregular triangles and quadrilaterals.

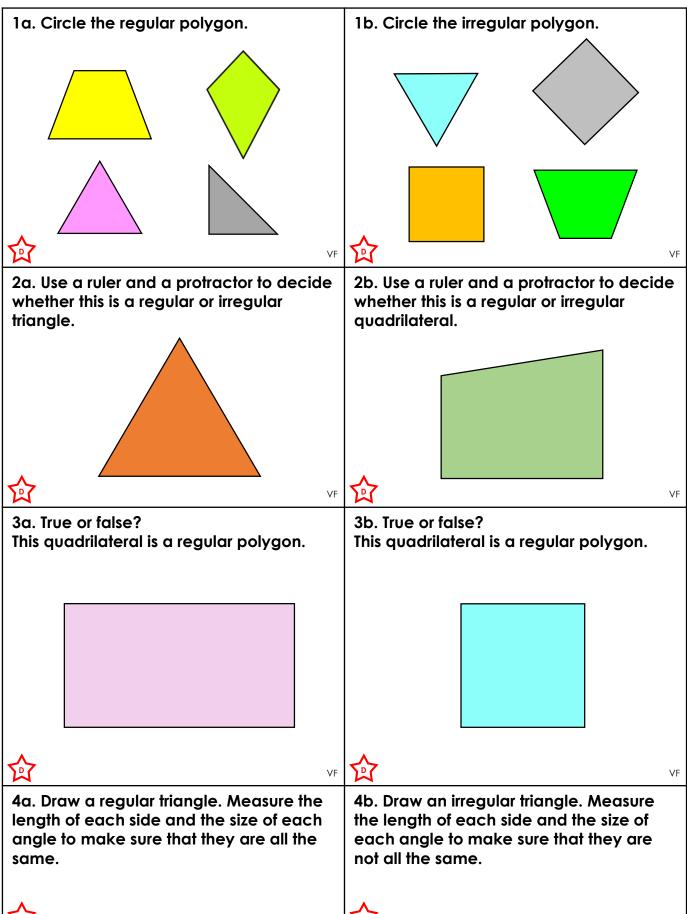
Expected Questions to support being able to distinguish between regular and irregular polygons. Using regular and irregular quadrilaterals, pentagons and hexagons.

Greater Depth Questions to support being able to distinguish between regular and irregular polygons. Includes all polygons up to decagons.

More Year 5 Properties of Shapes resources.

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

Regular and Irregular Polygons Regular and Irregular Polygons 1a. Circle the regular polygon. 1b. Circle the irregular polygon.

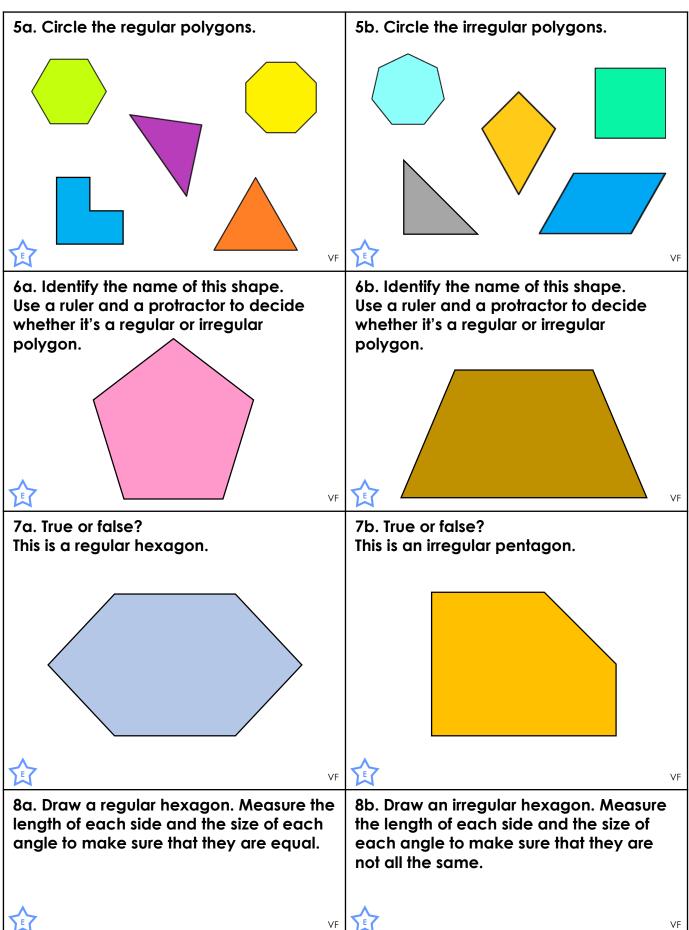




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Regular and Irregular Polygons

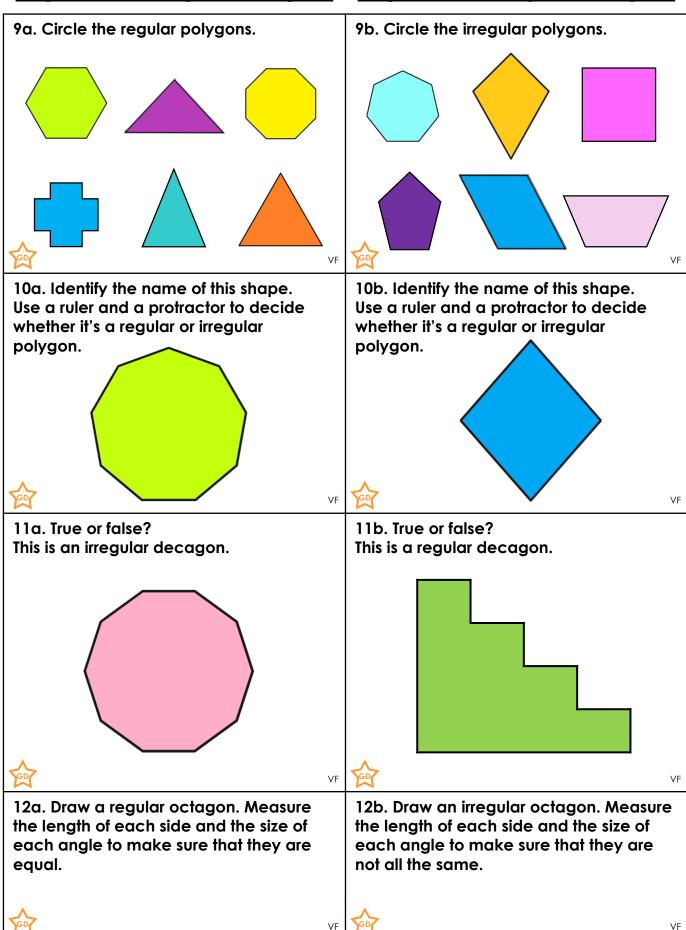
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<u>Developing</u>

1a.

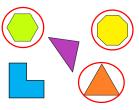
2a. The triangle is regular. It has 3 sides of equal length and each angle measures 60°.

3a. False

4a. The shape should have 3 sides of equal length and each angle should measure 60°.

Expected

5a.



6a. A pentagon. It is a regular polygon as it has 5 sides of equal length and each angle measures 108°.

7a. False

8a. The shape should have 6 sides of equal length and each angle should measure 120°.

Greater Depth







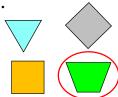


10a. A nonagon. It has 9 sides of equal length and each angle measures 140°. 11a. False

12a. The shape should have 8 sides of equal length and each angle should measure 135°.

Developing

lb.



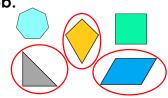
2b. The quadrilateral is irregular. It's length of sides and angles are different.

3b. True

4b. The shape should be a right-angled isosceles or scalene triangle.

Expected

5b.



6b. A trapezium. It is an irregular polygon. It's length of sides and angles are different.

7b. True

8b. The shape should have 6 sides but they can not be of equal length. Angles will be of different sizes too.

Greater Depth

9b.



10b. A rhombus. It is an irregular polygon. The length of its sides are equal but the angles are different.

11b. False

12b. The shape should have 8 sides but they can not be of equal length. Angles will also be different sizes.

