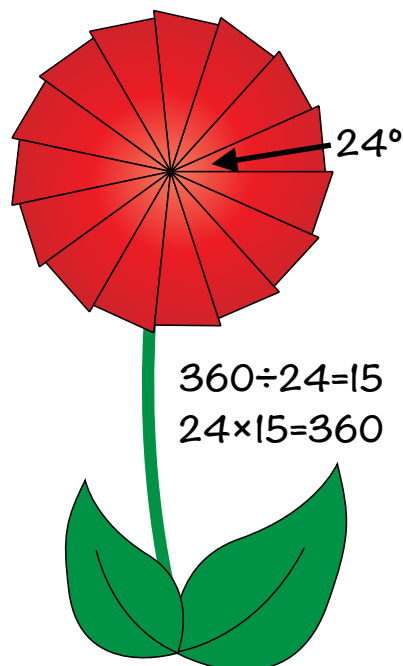
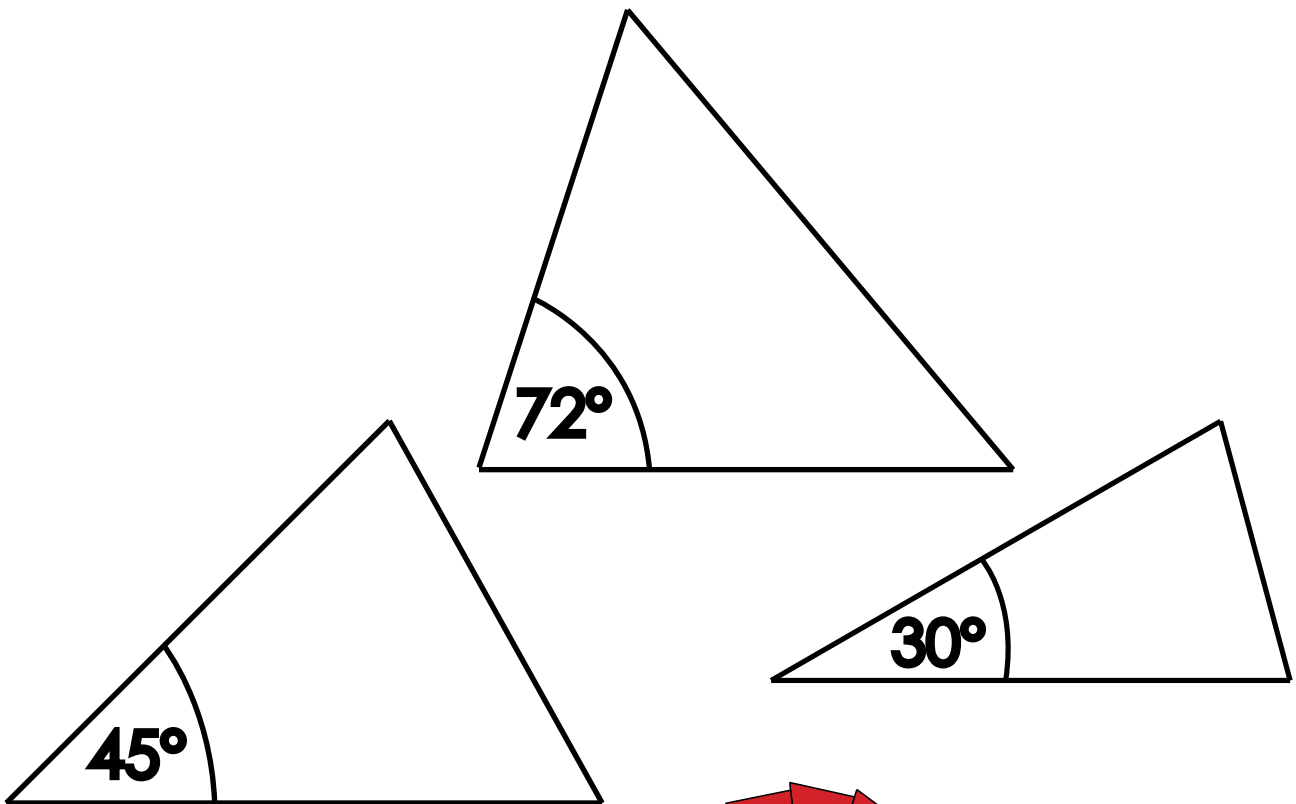


Name: _____ Date: _____



These triangles have angles which are factors of 360. They can be rotated exactly around these angles to make flower patterns! Cut out these triangles, then draw around them, rotating each triangle around the marked angles to make a pattern. Write number sentences to show how the 360° around the centre point of each pattern has been divided into equal angles.



$$360 \div 24 = 15$$

$$24 \times 15 = 360$$

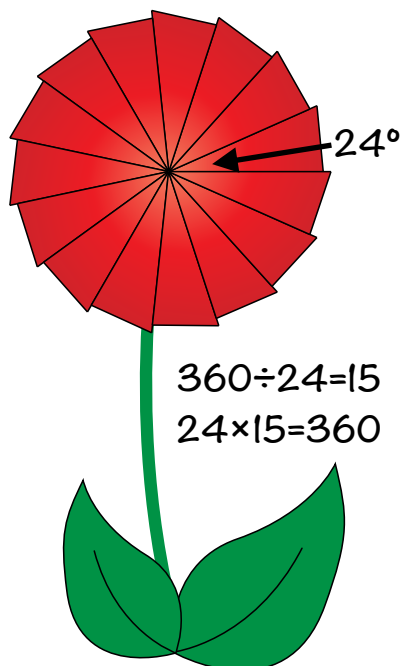
Don't forget to colour your flower patterns!

Name: _____ Date: _____



Use a protractor to help you draw triangles with one angle that is a factor of 360. Cut out these triangles, then draw around them, rotating each triangle around the marked angles to make a pattern. Write number sentences to show how the 360° around the centre point of each pattern has been divided into equal angles.

<p>Draw a triangle with at least one angle that is exactly 40°:</p> 	<p>Draw a triangle with at least one angle that is exactly 72°:</p>
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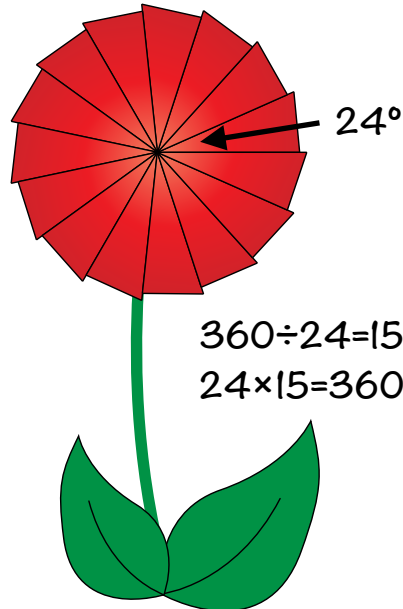


Don't forget to colour your flower patterns!

Name: _____ Date: _____



Triangles can be rotated exactly around one of their angles without leaving gaps or overlapping IF that angle is a factor of 360! 24 is a factor of 360, so I could make this rotating pattern:



360 has 22 factors. Can you find the rest of them?

1	2	3	4	5	6	8	9	10	12	15	18
360										24	20

Choose one of the factors of 360 which you found. In the space below, use a protractor to help you draw a triangle with at least one angle that is the factor you chose, e.g. 24°. Cut out the triangle and draw round it, rotating it to make a pattern.



