

Name: ..... Class: .....

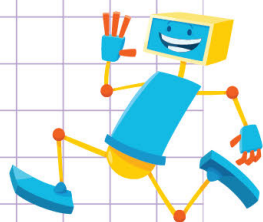
Number of sides in polygons

a. How many more sides does a nonagon have more than a pentagon?

c. Find the number of sides a triangle has.

b. Find the number of sides a dodecagon has more than a hexagon

d. Find the number of sides an octagon has.



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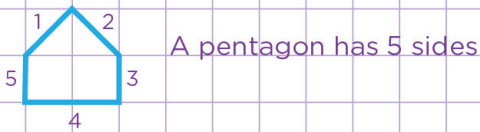
Number of sides in polygons

**a.** How many more sides does a nonagon have more than a pentagon?

Let's first of all find out the number of sides in each shape.



A nonagon has 9 sides



A pentagon has 5 sides

To, get the number of sides a nonagon has more than a pentagon, let's subtract 5 sides from 9 sides.

$$9 - 5 = 4$$

So, a nonagon has 4 more sides than a pentagon

**b.** Find the number of sides a dodecagon has more than a hexagon

Let's first of all find out the number of sides each shape has.

Number of sides of a dodecagon has = 12

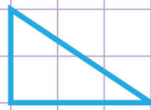
Number of sides a hexagon has = 6

So, number of sides a dodecagon has over a hexagon is

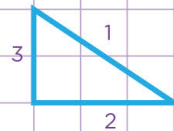
$$12 - 6 = 6 \text{ sides}$$

**c.** Find the number of sides a triangle has

Let's first of all draw a triangle



Now, let's count the number of sides

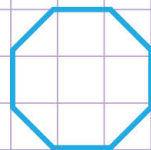


There are 3 sides

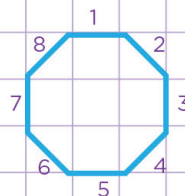
So, a triangle has three sides

**d.** Find the number of sides an octagon has

Let's first of all draw an octagon



Now, let's count the number of sides



You see that, there are 8 sides

So, octagon has 8 sides

