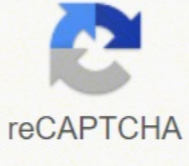




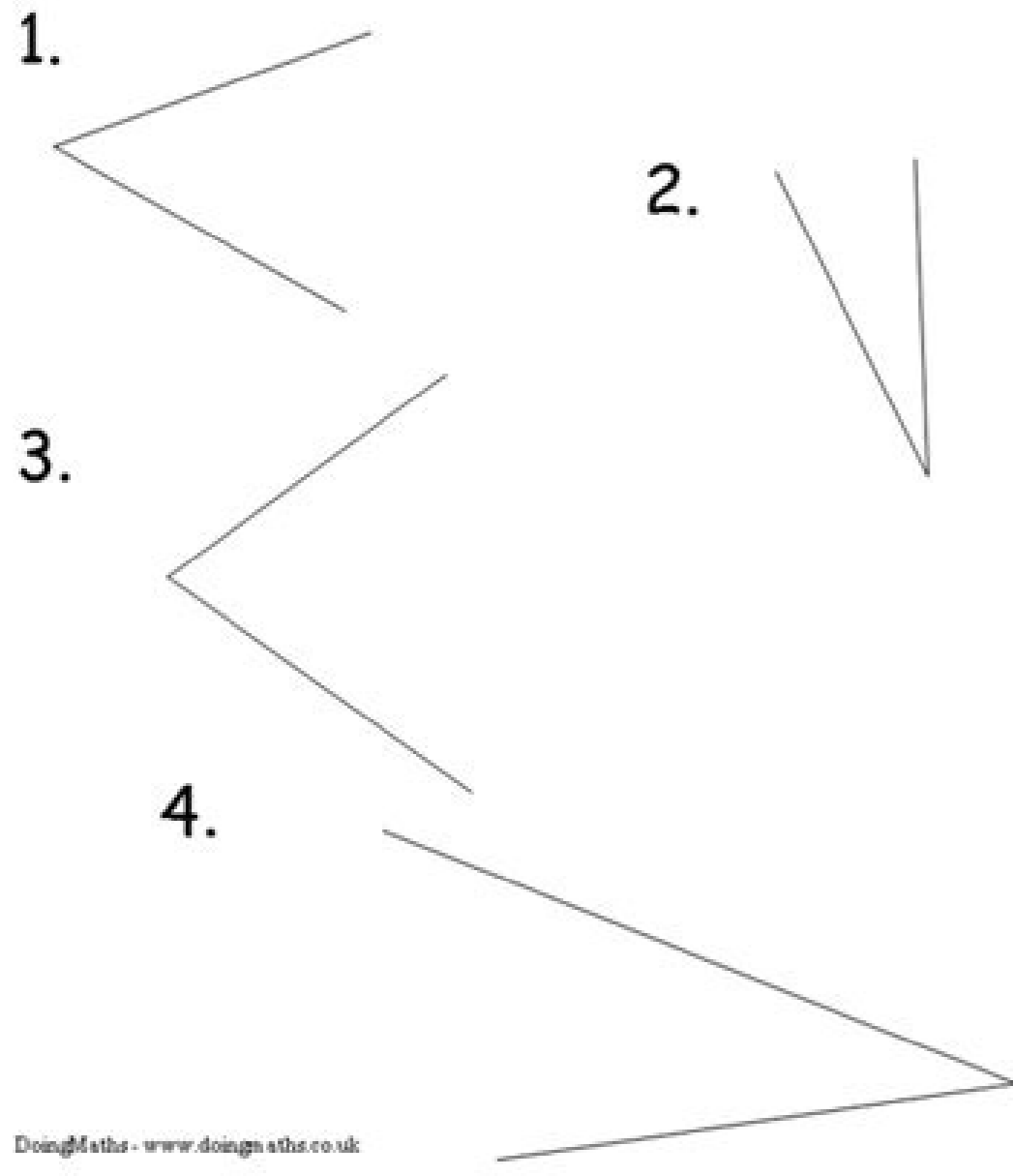
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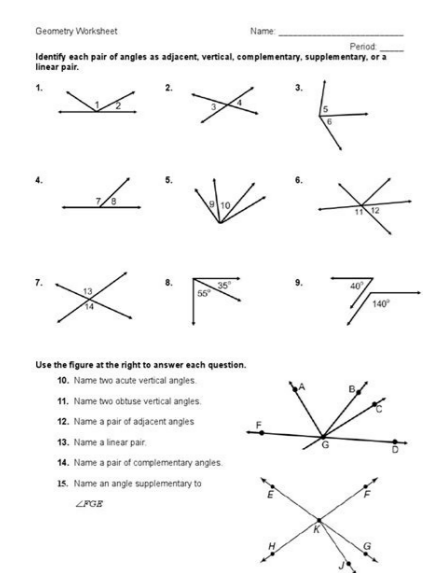
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Angle bisectors

Bisect these angles. Remember to check them with a protractor when you have finished.



Doanmaths - www.doanmaths.co.uk



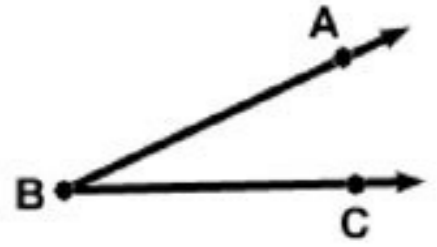
4.MD.5 Name the Angles

- I can identify the endpoint and rays that construct an angle.
- I will determine the name of an angle based on the points that construct the angle.

Draw a line to match the word with the definition.

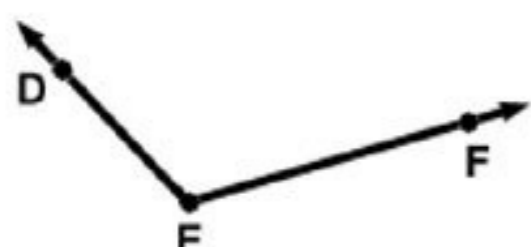
Vertex	-The increments of movement in a circle. 360 of these in 1 complete circle.
Ray	-A line with a fixed endpoint that goes forever.
Angle	-The endpoint shared by 2 rays that construct an angle.
Degrees	-∠ Named by the points on the rays that construct the angle, with the vertex being the middle.

Name each angle using the points that construct the angle.



What is the vertex for each angle?

Vertex is:



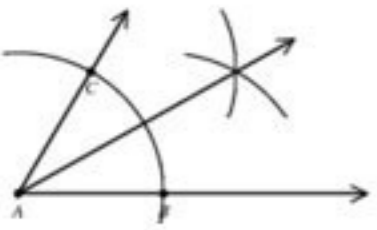
Vertex is:

Geometry Practice: G.G.17
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NAME: _____

P.1. G.G.17: Construct a bisector of a given angle, using a straightedge and compass, and justify the construction.

1. Which construction is represented by the diagram below?



- [A] copying $\angle A$ [B] copying \overline{AB}
[C] measuring $\angle A$ [D] bisecting $\angle A$

2. Construct the angle bisector of the given angle.



Angle bisectors

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Each figure shows a triangle with one of its angles bisected. The bisected angles are marked as 1 and 2.

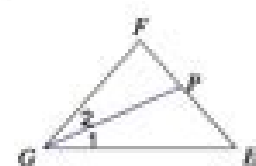
- 1) Find $m\angle I$ if $m\angle 2 = 25^\circ$.



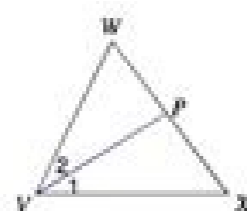
- 2) $m\angle CED = 96^\circ$. Find $m\angle I$.



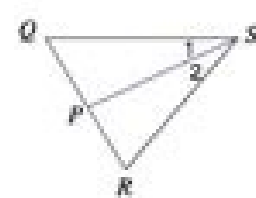
- 3) Find $m\angle I$ if $m\angle EGF = 48^\circ$.



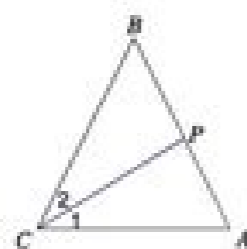
- 4) Find $m\angle 2$ if $m\angle XVW = 64^\circ$.



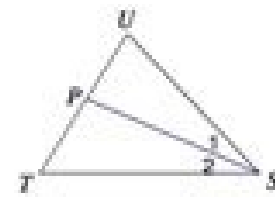
- 5) $m\angle I = 24^\circ$. Find $m\angle 2$.



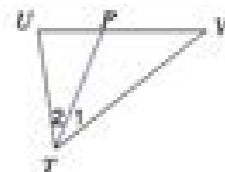
- 6) Find $m\angle ACB$ if $m\angle 2 = 31^\circ$.



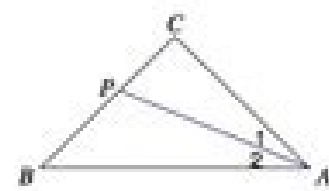
- 7) Find $m\angle UST$ if $m\angle 2 = 23^\circ$.



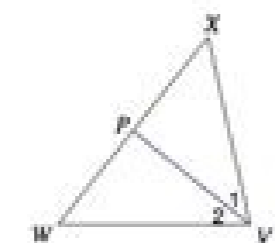
- 8) $m\angle 2 = 30^\circ$. Find $m\angle I$.



- 9) $m\angle 2 = 22^\circ$. Find $m\angle CAB$.



- 10) Find $m\angle I$ if $m\angle XVW = 76^\circ$.



You will work away at this skill and get better with each problem. Here are the steps to inscribing a circle inside a triangle. We get more work with using a compass and a straightedge to bisect line segments and angles. You can construct the third angle bisector for added accuracy, but you only need two to find the incenter. Students will complete each sentence to demonstrate their understanding of this skill. Eight problems are provided. The incenter is the spot where the angle bisectors intersect. Lines are called concurrent if they all meet and the point of concurrency of the three angle bisectors is called an incenter. This worksheet explains guides you through the complete skill. This worksheet explains how to bisect an angle. All you need to do is split the given lines into two equal pieces. This sheet should be used as a whole class to make sure they comprehend the concept. Also without changing the width, place the point of the compass at the intersection of the arc and the side of the angle. Using a compass and a straightedge get more work in breaking these things apart for yourself. This worksheet explains how to bisect all the angles in a square. Students will break up line segments and measures as indicated. Using mathematical tools, students will practice all the skills that we have learned here. A sample problem is solved. The drill will give you a lot of confidence, especially if you completed all of the work that was previously provided for you. Remember to not change the width of the compass. Inscribe a circle inside a figure so that it touches all the sides of the figure. Students will bisect the given angles. An angle bisector is a line that cuts an angle in half. It divides the angle into two congruent angles. The circle should fit snugly inside the triangle while touching all three sides. Repeat the steps of finding the incenter. Using a ruler or straightedge, connect the intersection of the interior arcs and the vertex of the angle. This point is called an incenter because if you were to draw a circle that fits inside the triangle, the angle bisectors would always meet directly "in the center" of this circle. Set the width of the compass to about half of one of the sides of the angle (the width actually doesn't matter, as long as it does not change during the next couple of steps) Draw a small arc through each side of the angle. To construct an angle bisector, you will need a compass and a ruler or straightedge. Here are the steps to constructing the incenter of a triangle. You will get better the more that you practice with your straight edge. This worksheet explains how to bisect line segments and angles. Do this again for a different side. This worksheet explains how to draw the bisector with precision by using a compass and a straight edge. Draw a new arc in the interior of the angle. Here are the steps to constructing an angle bisector. Carefully, use the compass to draw a circle inside the triangle. This free worksheet contains 10 assignments each with 24 questions with answers. Example of one question: Watch below how to solve this example: constructions-angle-bisector-constructions-medium.pdf Locate the incenter of each triangle. Three problems are provided. This free worksheet contains 10 assignments each with 24 questions with answers. Example of one question: Watch below how to solve this example: constructions-angle-bisector-constructions-hard.pdf Inscribe a circle in each triangle. This worksheet explains how to work with a compass and a straight edge. This can be used as a solid review and class practice exercise. Repeat the above steps and construct the angle bisector of one of the sides of the triangle. Below you can download some free math worksheets and practice. This is your angle bisector! There are three angles in a triangle, so all together a triangle can have three different angle bisectors. Ten problems are provided. constructions-angle-bisector-constructions-easy.pdf Construct the bisector of each angle. Place the point of the compass on the incenter and the pencil side on one of the sides of the triangle. Repeat this for the other side of the angle. These lines will all meet together inside the triangle.

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