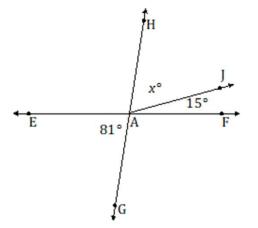
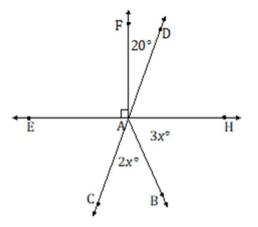
## **Angle Word Problems Worksheets**

1. Find the measure of  $\angle HAJ$ 



2. Find the measures of  $\angle HAB$  and  $\angle CAB$ 

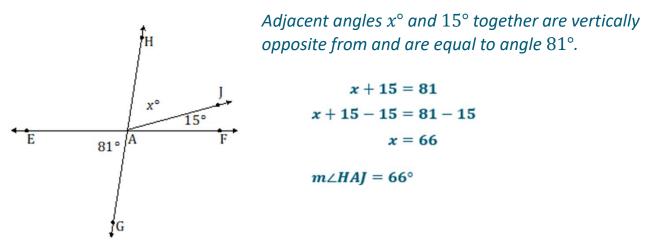


3. The measures of three angles at a point are in the ratio of 2:3:5. Find the measures of the angles.

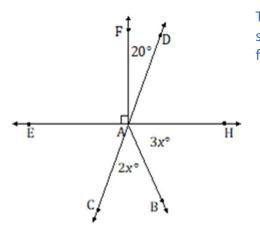
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## **Angle Word Problems Worksheets**

1. Find the measure of  $\angle HAJ$ 



2. Find the measures of  $\angle HAB$  and  $\angle CAB$ 



The measures of adjacent angles  $\angle CAB$  and  $\angle HAB$  have a sum of the measure of  $\angle CAH$ , which is vertically opposite from and equal to the measurement of  $\angle DAE$ 2x + 3x + 70 = 1805x = 110

$$\left(\frac{1}{5}\right)5x = \left(\frac{1}{5}\right)110$$
$$x = 22$$

$$m \angle CAB = 2(22^\circ) = 44^\circ$$

3. The measures of three angles at a point are in the ratio of 2:3:5. Find the measures of the angles.

$$\angle A = 2x, \angle B = 3x, \angle C = 5x$$

$$2x + 3x + 5x = 360$$

$$10x = 360$$

$$\left(\frac{1}{10}\right)10x = \left(\frac{1}{10}\right)360$$

$$x = 36$$

$$\angle A = 2(36^\circ) = 72^\circ$$

$$\angle B = 3(36^\circ) = 108^\circ$$

$$\angle C = 5(36^\circ) = 180^\circ$$

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