Angle Word Problems Worksheets

1. Set up and solve an equation to find the value of x. Find the measurements of $\angle CAH$ and $\angle EAG$.



2. Set up and solve an equation to find the values of *a* and *b*.



3. Set up and solve an equation to find the value of x, y, z.



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1. Set up and solve an equation to find the value of x. Find the measurements of $\angle CAH$ and $\angle EAG$.



$$4x + 90 + x = 160$$

$$5x + 90 = 160$$

$$5x + 90 - 90 = 160 - 90$$

$$5x = 70$$

$$\left(\frac{1}{5}\right)5x = \left(\frac{1}{5}\right)70$$

$$x = 14$$

The measurement of $\angle CAH$: 14°

The measurement of $\angle EAG$: $4(14)^{\circ} = 56^{\circ}$

2. Set up and solve an equation to find the values of *a* and *b*.



3. Set up and solve an equation to find the value of x, y, z.



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