MA2G2. **Students will define and apply sine, cosine, and tangent ratios to right triangles.**

3. Given the following two triangles finish the statements:

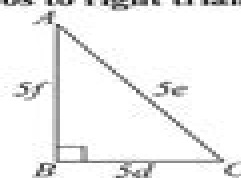   a. Sin A in the first triangle = Cos **F** in the second triangle.

   $$Sin\ A = \frac{5d}{5e} = \frac{d}{e} \qquad Cos\ E = \frac{d}{e}$$
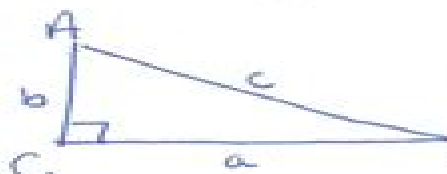
   b. Cos D in the second triangle = Sin **C** in the first triangle.

   $$Cos\ D = \frac{f}{e} \qquad Sin\ C = \frac{5f}{5e} = \frac{f}{e}$$

4. Given a right triangle ABC where $\angle C$ is $90°$, Sin A is the same as what other trig ratio(s)?

$$Sin\ A = \frac{a}{c} \qquad \mathbf{Sin\ B = \frac{b}{c}}$$
$$Cos\ A = \frac{b}{c} \qquad \boxed{Cos\ B = \frac{a}{c}}$$
$$Tan\ A = \frac{a}{b} \qquad Tan\ B = \frac{b}{a}$$

5. Given an isosceles right triangle ABC where $\angle C$ is $90°$, Cos B is the same as what other trig ratio(s)?

$$45° - 45° - 90°$$

$$Sin\ A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \qquad \boxed{Sin\ B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}}$$
$$Cos\ A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \qquad Cos\ B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$
$$Tan\ A = \frac{1}{1} = 1 \qquad Tan\ B = \frac{1}{1} = 1$$

6. If the length of IJ is $47ft$, find the perimeter of $\triangle HIJK$. Round your answer to the nearest tenth.

- $Sin\ 50° = \frac{47}{HJ} \rightarrow HJ = \frac{47}{Sin\ 50°} = \boxed{61.35}$
- $Tan\ 50° = \frac{47}{HI} \rightarrow HI = \frac{47}{Tan\ 50°} = \boxed{39.44}$
- $Sin\ 25° = \frac{47}{JK} \rightarrow JK = \frac{47}{Sin\ 25°} = \boxed{111.21}$
- $Tan\ 25° = \frac{47}{IK} \rightarrow IK = \frac{47}{Tan\ 25°} = \boxed{100.79}$

$$61.35 + 39.44 + 111.21 + 100.79 = \boxed{312.79 ft}$$

7. In $\triangle ABC$ where $\angle C$ is $90°$, if $Tan\ A = \frac{1}{2}$, then $Sin\ A = \boxed{\frac{\sqrt{5}}{5}}$, $Sin\ B = \boxed{\frac{2\sqrt{5}}{5}}$, $Cos\ A = \boxed{\frac{2\sqrt{5}}{5}}$, $Cos\ B = \boxed{\frac{\sqrt{5}}{5}}$

$$Sin\ A = \frac{1}{\sqrt{5}} = \frac{1\sqrt{5}}{5}$$
$$\boxed{A = Sin^{-1}\left(\frac{\sqrt{5}}{5}\right)}$$
$$A = 26.57°$$

8. Solve $\triangle ABC$ from #7.

$$A = \boxed{26.57°} \qquad a = \boxed{1}$$
$$B = \boxed{63.43°} \qquad b = \boxed{2}$$
$$C = \boxed{90°} \qquad c = \boxed{\sqrt{5}\ or\ 2.24}$$

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Wolfgang Guggemos

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