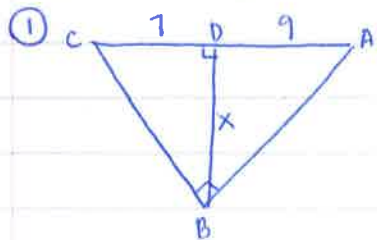


What Do They Call Bowling In Hawaii?



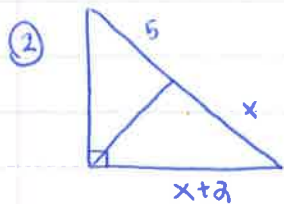
$$\frac{7}{x} = \frac{x}{9}$$

$$x^2 = 63$$

$$x = \sqrt{63}$$

$$x = 3\sqrt{7}$$

$$BD = 3\sqrt{7}$$



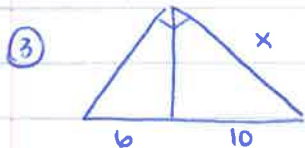
$$\frac{x}{x+2} = \frac{x+2}{5+x}$$

$$(x+2)(x+2) = x(5+x)$$

$$\cancel{x^2} + 4x + 4 = 5x + \cancel{x^2}$$

$$4x + 4 = 5x$$

$$4 = x$$

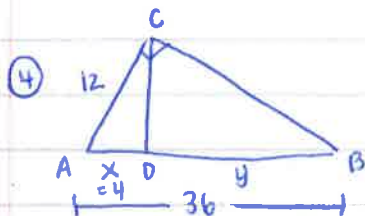


$$\frac{10}{x} = \frac{x}{6}$$

$$x^2 = 160$$

$$x = \sqrt{160}$$

$$x = 4\sqrt{10}$$



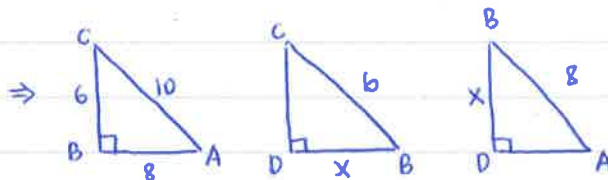
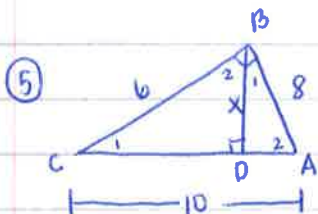
$$\frac{x}{12} = \frac{12}{36}$$

$$DB = 36 - 4$$

$$DB = 32$$

$$144 = 36x$$

$$x = 4$$

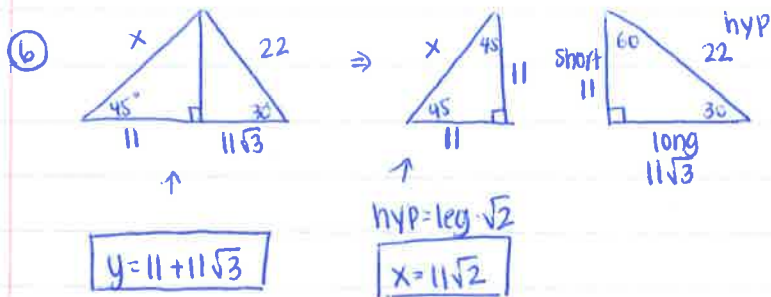


$$\frac{CB}{BD} = \frac{CA}{BA} \Rightarrow \frac{6}{x} = \frac{10}{8}$$

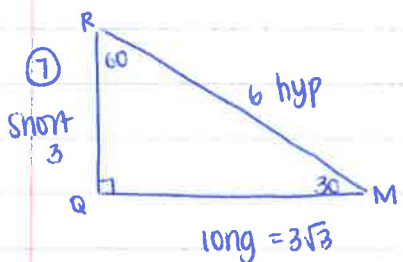
$$BD = \frac{24}{5}$$

$$10x = 48$$

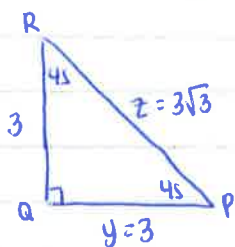
$$x = \frac{48}{10} = \frac{24}{5}$$



$\text{hyp} = \text{short} \cdot 2$ $\text{long} = \text{short} \cdot \sqrt{3}$
 $\frac{22}{2} = \frac{\text{short}}{2}$ $\text{long} = 11\sqrt{3}$
 $\text{short} = 11$

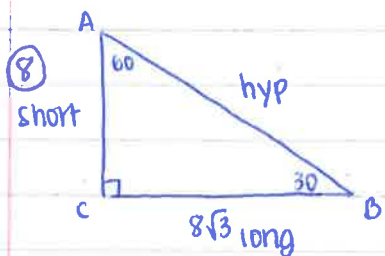


$\text{hyp} = \text{short} \cdot 2$ $\text{long} = \text{short} \cdot \sqrt{3}$
 $6 = \text{short} \cdot 2$ $\text{long} = 3\sqrt{3}$
 $\text{short} = 3$



$\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $z = 3\sqrt{3}$
 $y = 3$

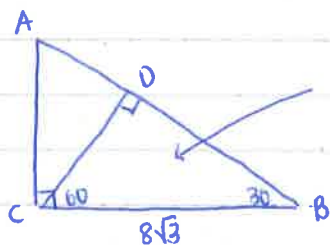
$MQ = x + y$
 $3\sqrt{3} = x + 3$
 $x = 3\sqrt{3} - 3$



$\text{long} = \text{short} \cdot \sqrt{3}$
 $BC = AC \cdot \sqrt{3}$
 $\frac{8\sqrt{3}}{\sqrt{3}} = \frac{AC \cdot \sqrt{3}}{\sqrt{3}}$

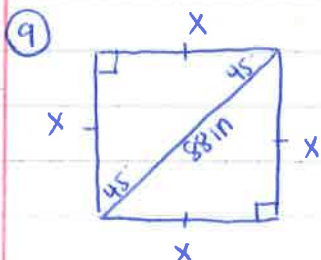
$\text{hyp} = \text{short} \cdot 2$
 $AB = AC \cdot 2$
 $AB = 8 \cdot 2$
 $AB = 16$

$AC = 8$



$\text{hyp} = \text{short} \cdot 2$
 $CB = CD \cdot 2$
 $\frac{8\sqrt{3}}{2} = \frac{CD \cdot 2}{2}$

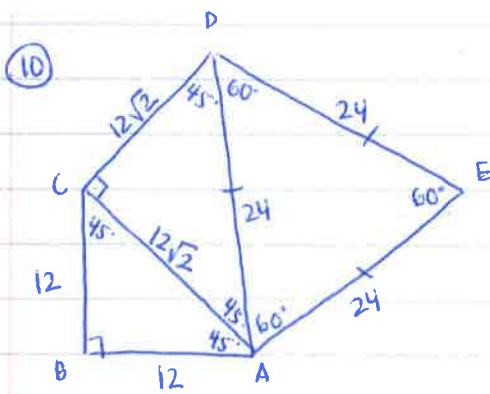
$CD = 4\sqrt{3}$



$\text{hyp} = \text{leg} \cdot \sqrt{2}$
 $\frac{88}{\sqrt{2}} = \frac{x \cdot \sqrt{2}}{\sqrt{2}}$

$x = \frac{88 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{88\sqrt{2}}{2} = 44\sqrt{2}$

$P = 4(44\sqrt{2})^2$
 $P = 176\sqrt{2} \text{ in}$



$$AD = \text{leg} \cdot \sqrt{3}$$

$$AD = 12\sqrt{2} \cdot \sqrt{2}$$

$$AD = 12\sqrt{4}$$

$$AD = 12(2)$$

$$AD = 24$$

$$P = 12 + 12 + 24 + 24 + 12\sqrt{2}$$

$$P = 72 + 12\sqrt{2}$$

Answer: ROLLING IN THE ISLES

Why was the Pail Pale?

$$\textcircled{1} \frac{5 \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{5\sqrt{3}}{\sqrt{9}} = \boxed{\frac{5\sqrt{3}}{3}} \quad \textcircled{2} \frac{2 \cdot \sqrt{7}}{\sqrt{7} \cdot \sqrt{7}} = \frac{2\sqrt{7}}{\sqrt{49}} = \boxed{\frac{2\sqrt{7}}{7}}$$

$$\textcircled{3} \frac{20 \cdot \sqrt{5}}{\sqrt{5} \cdot \sqrt{5}} = \frac{20\sqrt{5}}{\sqrt{25}} = \left(\frac{20\sqrt{5}}{5}\right) = \boxed{4\sqrt{5}} \quad \textcircled{4} \frac{14 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{14\sqrt{2}}{\sqrt{4}} = \left(\frac{14\sqrt{2}}{2}\right) = \boxed{7\sqrt{2}}$$

$$\textcircled{5} \frac{4 \cdot \sqrt{10}}{\sqrt{10} \cdot \sqrt{10}} = \frac{4\sqrt{10}}{\sqrt{100}} = \left(\frac{4\sqrt{10}}{10}\right) = \boxed{\frac{2\sqrt{10}}{5}}$$

$$\textcircled{6} \frac{3 \cdot \sqrt{12}}{\sqrt{12} \cdot \sqrt{12}} = \frac{3\sqrt{12}}{\sqrt{144}} = \frac{3\sqrt{12}}{12} = \frac{3\sqrt{4\sqrt{3}}}{12} = \frac{3 \cdot 2\sqrt{3}}{12} = \left(\frac{6\sqrt{3}}{12}\right) = \boxed{\frac{\sqrt{3}}{2}}$$

$$\textcircled{7} \frac{30 \cdot \sqrt{18}}{\sqrt{18} \cdot \sqrt{18}} = \frac{30\sqrt{18}}{\sqrt{324}} = \frac{30\sqrt{18}}{18} = \frac{30\sqrt{9\sqrt{2}}}{18} = \frac{30 \cdot 3\sqrt{2}}{18} = \left(\frac{90\sqrt{2}}{18}\right) = \boxed{5\sqrt{2}}$$

$$\textcircled{8} \frac{8 \cdot \sqrt{20}}{\sqrt{20} \cdot \sqrt{20}} = \frac{8\sqrt{20}}{\sqrt{400}} = \frac{8\sqrt{20}}{20} = \frac{8\sqrt{4\sqrt{5}}}{20} = \frac{8 \cdot 2\sqrt{5}}{20} = \left(\frac{16\sqrt{5}}{20}\right) = \boxed{\frac{4\sqrt{5}}{5}}$$

$$\textcircled{9} \frac{9 \cdot \sqrt{45}}{2\sqrt{45} \cdot \sqrt{45}} = \frac{9\sqrt{45}}{2\sqrt{2025}} = \frac{9\sqrt{45}}{2(45)} = \frac{9\sqrt{45}}{90} = \frac{9\sqrt{9\sqrt{5}}}{90} = \frac{9 \cdot 3\sqrt{5}}{90} = \left(\frac{27\sqrt{5}}{90}\right) = \boxed{\frac{3\sqrt{5}}{10}}$$

$$\textcircled{10} \frac{\sqrt{7} \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{\sqrt{21}}{\sqrt{9}} = \boxed{\frac{\sqrt{21}}{3}}$$

$$\textcircled{11} \frac{3\sqrt{6} \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{3\sqrt{12}}{\sqrt{4}} = \frac{3\sqrt{12}}{2} = \frac{3\sqrt{4\sqrt{3}}}{2} = \frac{3 \cdot 2\sqrt{3}}{2} = \left(\frac{6\sqrt{3}}{2}\right) = \boxed{3\sqrt{3}}$$

$$\textcircled{12} \frac{2\sqrt{3} \cdot \sqrt{15}}{\sqrt{15} \cdot \sqrt{15}} = \frac{2\sqrt{45}}{\sqrt{225}} = \frac{2\sqrt{45}}{15} = \frac{2\sqrt{9\sqrt{5}}}{15} = \frac{2 \cdot 3\sqrt{5}}{15} = \left(\frac{6\sqrt{5}}{15}\right) = \boxed{\frac{2\sqrt{5}}{5}}$$

ANSWER: IT WASN'T A WELL BUCKET