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so many fake sites. this is the first one which worked! Many thanks

An isosceles triangle has perimeter 30 cm and each of the equal sides is 12 cm. Find the area of the triangle.

**Solution:**

$$\begin{aligned} a &= 12 \text{ cm, } b = 12 \text{ cm} \\ \text{Perimeter} &= 30 \text{ cm} \\ \Rightarrow a + b + c &= 30 \Rightarrow 12 + 12 + c = 30 \\ \Rightarrow 24 + c &= 30 \Rightarrow c = 30 - 24 \\ \Rightarrow c &= 6 \text{ cm} \\ s &= \frac{30}{2} \text{ cm} = 15 \text{ cm} \end{aligned}$$



$$\begin{aligned} \therefore \text{Area of the triangle} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{15(15-12)(15-12)(15-6)} \\ &= \sqrt{15(3)(3)(9)} = 9\sqrt{15} \text{ cm}^2. \end{aligned}$$

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