

Answers for Monday Week 9, 2020 P6MK 2000 P3 394

1	$S_1 + S_2 + S_3 = \text{perimeter}$ $3x + 4x + 25 = 60$ $7x + 25 = 60$ $7x + 25 - 25 = 60 - 25$ $7x + 0 = 35$ $\frac{7x}{7} = \frac{35}{7}$ $x = 5 \text{ cm.}$	2	$S_1 + S_2 + S_3 + S_4 = \text{Perimeter}$ $x + 12 + x + 12 = 34$ $x + x + 12 + 12 = 34$ $2x + 24 = 34$ $2x + 24 - 24 = 34 - 24$ $2x + 0 = 10$ $\frac{2x}{2} = \frac{10}{2}$ $x = 5 \text{ cm}$ $\therefore \text{Width} = 5 \text{ cm}$
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$$5 \quad S_1 + S_2 + S_3 + S_4 = \text{Perimeter}$$

$$x+3 + 3x+1 + 2x + 2x = 44$$

$$x+3x+4x + 3+1 = 44$$

$$8x+4 = 44$$

$$8x+4-4 = 44-4$$

$$8x+0 = 40$$

$$\frac{8x}{8} = \frac{40}{8}$$

$$x = 5$$

$$x = 5 \text{ cm}$$

$$6 \quad \text{Since all sides are equal;}$$

$$P = S_1 + S_2 + S_3$$

$$S+S+S = P$$

$$5t + 5t + 5t = 75$$

$$\frac{15t}{15} = \frac{75}{15}$$

$$t = 5 \text{ cm}$$