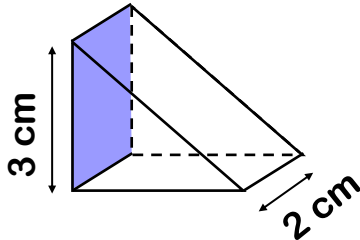


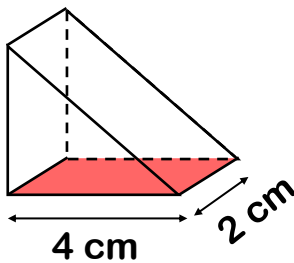
Find the total surface area of this triangular prism

Notice: How many sides does it have?



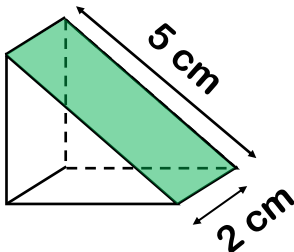
Area of the blue rectangle face =

$$3 \text{ cm} \times 2 \text{ cm} = 6 \text{ cm}^2$$



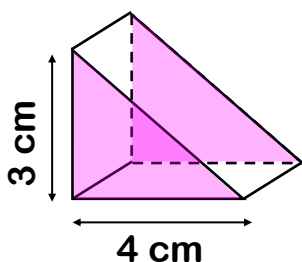
Area of the red rectangle face =

$$4 \text{ cm} \times 2 \text{ cm} = 8 \text{ cm}^2$$



Area of the green rectangle face =

$$5 \text{ cm} \times 2 \text{ cm} = 10 \text{ cm}^2$$

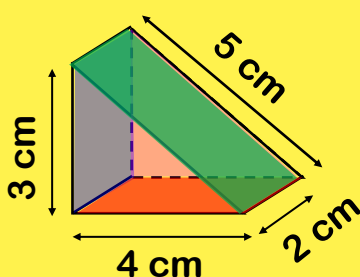


Area of one purple triangle face =

$$3 \text{ cm} \times 4 \text{ cm} \div 2 = 6 \text{ cm}^2$$

Area of two purple triangle faces =

$$6 \text{ cm}^2 \times 2 = 12 \text{ cm}^2$$



Total surface area =

$$6 \text{ cm}^2 + 8 \text{ cm}^2 + 10 \text{ cm}^2 + 12 \text{ cm}^2 = \underline{36 \text{ cm}^2}$$