

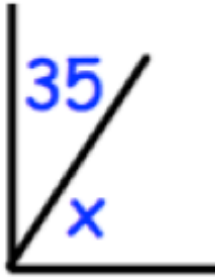


Estimate the size of this angle

60 - 80 degrees

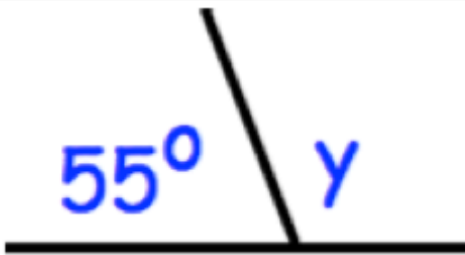
What type of angle is it?

acute



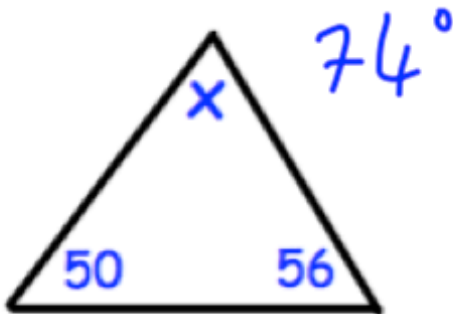
$$\begin{array}{r} 90 \\ - 35 \\ \hline 55 \end{array}$$

55°



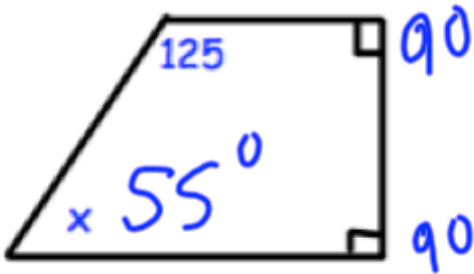
$$\begin{array}{r} 180 \\ - 55 \\ \hline 125 \end{array}$$

125°



$$\begin{array}{r} 50 \\ + 56 \\ \hline 106 \end{array}$$

$$\begin{array}{r} 180 \\ - 106 \\ \hline 74 \end{array}$$



$$\begin{array}{r} 125 \\ 90 \\ + 90 \\ \hline 305 \end{array}$$

$$\begin{array}{r} 360 \\ - 305 \\ \hline 55 \end{array}$$

March 13th

5-a-day

Foundation

Simplify

$$5x + 1 - 2x - 6$$

$$3x - 5$$

Solve  $10x - 12 = 3$

$$\begin{aligned} &+12 +12 \\ 10x &= 15 \\ \div 10 &\div 10 \\ x &= 1.5 \end{aligned}$$

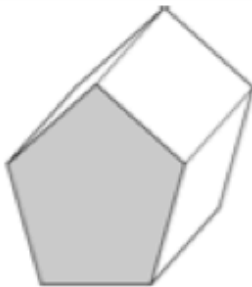
$$x = 1.5$$

$$1\frac{1}{2} + \frac{3}{4}$$

$$\frac{3}{2} + \frac{3}{4}$$

$$\frac{3}{2} \times \frac{4}{3} = \frac{12}{6}$$

$$= 2$$



$$\begin{aligned} 240 &\div 40 \\ &= 6 \\ &6\text{cm} \end{aligned}$$

The area of the cross-section is  $40\text{cm}^2$

The volume is  $240\text{cm}^3$

How long is the prism?

Simplify

$$10^9 \times 10^3$$

$$10^{12}$$

March 13th

5-a-day

Higher

Work out

$$5^{-3} \quad \frac{1}{5^3} = \frac{1}{125}$$

Work out

$$36^{\frac{1}{2}} \quad \sqrt{36} = 6$$

Solve

$$\frac{16-x}{5} = 2+x$$

$$\begin{aligned} 16-x &= 10+5x \\ 6 &= 6x \\ x &= 1 \end{aligned}$$

Fred wants to draw a histogram

Weight, $w$ kg	Animals	$F_0$
$2.0 \leq w < 3.0$	13	13
$3.0 \leq w < 3.5$	8	16
$3.5 \leq w < 4.0$	12	24
$4.0 \leq w < 6.0$	20	10
$6.0 \leq w < 6.5$	3	6

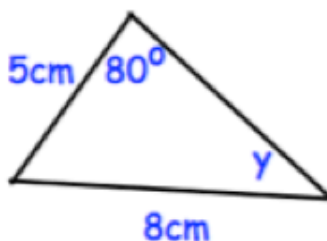
Calculate the frequency densities

$$F_0 = \frac{F}{cw}$$

Calculate the volume of a sphere with radius 4cm

$$\frac{4}{3}\pi r^3$$

$$\begin{aligned} \frac{4}{3}\pi \times 4^3 \\ = 268.1 \text{ cm}^3 \end{aligned}$$



Calculate the size of angle  $y$

$$\begin{aligned} \frac{\sin y}{5} &= \frac{\sin 80}{8} \\ \sin y &= \frac{5 \sin 80}{8} = 0.6155.. \\ y &= 37.99^\circ \end{aligned}$$