6th June **Higher 5-a-day**

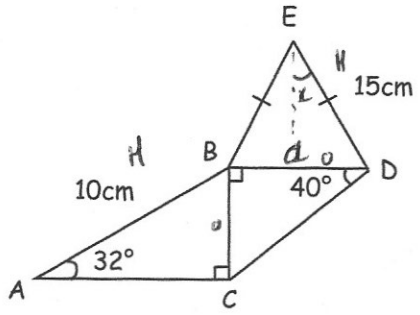
Corbettmaths

Simplify $\sqrt{30} \div \sqrt{6}$

$\sqrt{5}$

Simplify $7\sqrt{2} \times 4\sqrt{11}$

$28\sqrt{22}$



Calculate the size of angle BED

$BC = \sin(32) \times 10 = 5.2992\text{ cm}$

$BD = 5.2992 \div \tan 40 = 6.31533\text{ cm}$

$\sin x = \frac{3.1571\ldots}{15}$ $x = 12.152\ldots$

$12.152\ldots \times 2 = 24.3°$

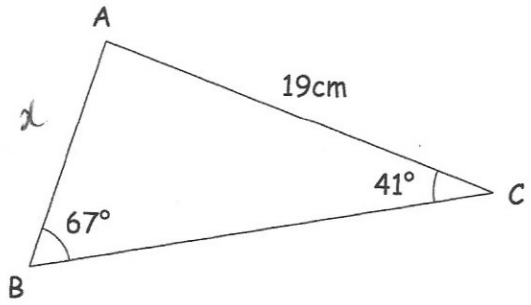
Make g the subject of

$5g + 3w = ag - c$

$3w + c = ag - 5g$

$3w + c = g(a - 5)$

$g = \frac{3w + c}{a - 5}$



Find the length of AB.

$\frac{x}{\sin 41} = \frac{19}{\sin 67}$

$x = 13.5416\text{ cm}$

Find angle BAC

$180 - 67 - 41 = 72°$

Find the area of the triangle

$\frac{1}{2} \times 13.5416 \times 19 \times \sin 72$

$= 122.35\text{ cm}^2$