8th October **Higher 5-a-day**

Corbettmaths

Find the range of values of x that satisfies both

$4(x + 5) < 100$ and $2x + 5 > 17$

$x + 5 < 25$ $\quad 2x > 12$

$x < 20$ $\quad x > 6$

$6 < x < 20$

A dice is rolled. 2 3 5
A coin is flipped.

What is the probability of getting a tail and a prime number?

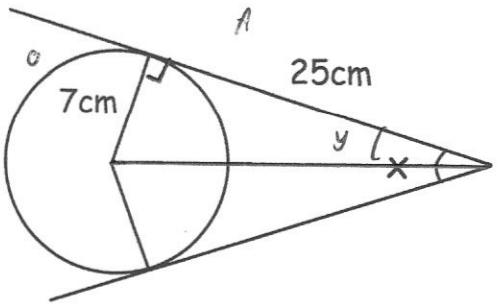
$P(\text{tail}) = \frac{1}{2}$

$P(\text{prime}) = \frac{1}{2}$

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Simplify $9\sqrt{35} \div 3\sqrt{5}$

$3\sqrt{7}$



Shown is a circle, two tangents and two radii.
Find the size of the angle marked x.

$\tan y = \frac{7}{25}$

$y = 15.64°$

$x = 31.28°$

Work out $100000^{\frac{3}{5}}$

$\sqrt[5]{100000} = 10$

$10^3 = 1000$