

8th October



Corbettmaths

Find the range of values of x that satisfies both

$$3(x + 2) \leq 30 \quad \text{and} \quad 4x + 3 > 21$$

$$3x + 6 \leq 30$$

$$4x > 18$$

$$3x \leq 24$$

$$x > 4.5$$

$$x \leq 8$$

$$4.5 < x \leq 8$$

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

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

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

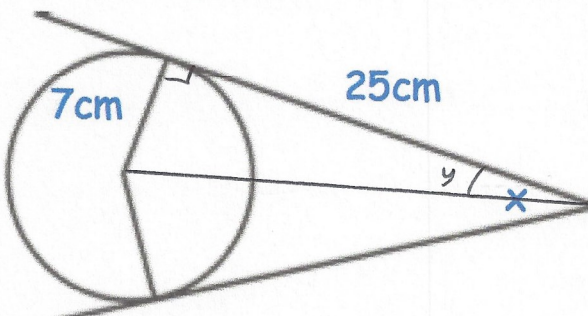
$$P(\text{prime}) = \frac{1}{2}$$

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

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 .

$$\tan y = \frac{7}{25} \quad y = 15.64$$

$$x = 31.28^\circ$$

Evaluate

$$125^{\frac{2}{3}}$$

$$\sqrt[3]{125} = 5$$

$$5^2 = 25$$

$$25$$