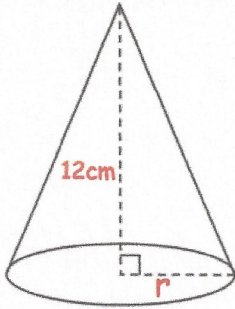


20th September



Corbettmaths



$$\frac{1}{3} \pi r^2 h = 400$$

$$\pi r^2 \times 12 = 1200$$

$$\pi r^2 = 100$$

The volume of the cone is 400cm^3
Find r .

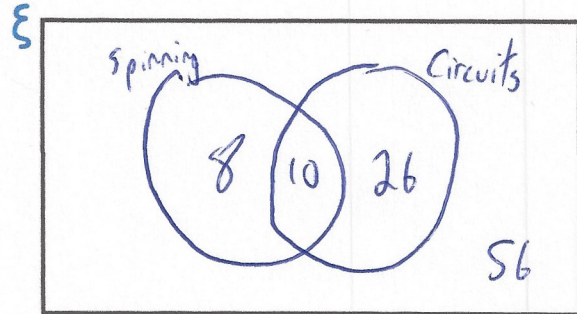
$$r^2 = 31.83\dots$$

$$r = 5.64\text{ cm}$$

A gym runs two fitness classes, spinning and circuits.

On Saturday 100 people visited the gym.
18 people attended the spinning class.
10 people attended both classes.
56 people did not attend either class.

Represent this information on a Venn diagram



A person who attended the gym is selected at random.

Find the probability that this person attended only one class.

$$\frac{34}{100} = \frac{17}{50}$$

Simplify
 $81^{\frac{3}{4}}$

$$27$$

Simplify
 $(9x^4)^{\frac{3}{2}}$

$$27x^6$$

Write $0.2545454\dots$ as a fraction

$$x = 0.2545454\dots$$

$$10x = 2.545454\dots$$

$$1000x = 254.5454\dots$$

$$990x = 252$$

$$x = \frac{252}{990} = \frac{14}{55}$$