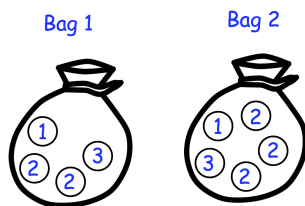


**31st July**

Corbettmaths

A cylinder has a height of 18cm and volume of  $1715\text{cm}^3$ .  
Work out the surface area of the cylinder.

Harrison has two bags, each containing discs.



Harrison chooses a disc at random from Bag 1.  
If the disc is labelled 1, he puts the disc in Bag 2.  
If the disc is not labelled 1, he does **not** put the disc in Bag 2.  
Harrison then chooses a disc at random from Bag 2.

Harrison adds together the numbers from the two discs he selected to give his score.  
Find the probability of Harrison scoring 4.

Solve

$$\frac{x+1}{x-3} + \frac{2}{x-4} = 2$$

Give your solutions to 3 significant figures