

21st June

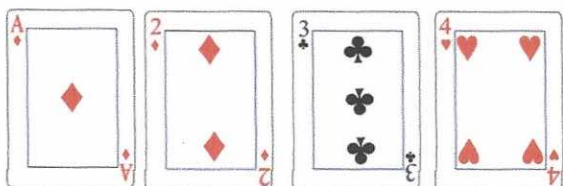


Corbettmaths

Arrange in descending order, smallest first

738000 9.4×10^3 20×5^8
 9400 7812500

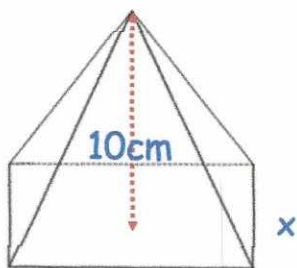
9.4×10^3 , 738000, 20×5^8



Sophie selects a card at random, then replaces it. She then selects another.

What is the probability she selects two black cards?

$$\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$$



Shown is a square-based pyramid with volume 270cm^3

Find the length of the side marked x.

$$\frac{1}{3} x^2 \times 10 = 270$$

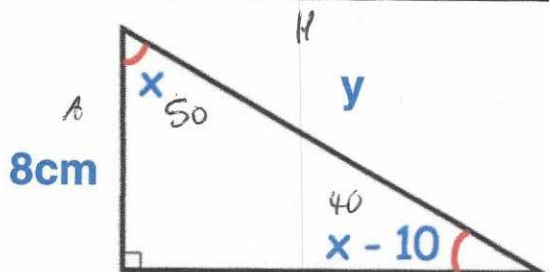
$$x^2 \times 10 = 810$$

$$x^2 = 81 \quad x = 9$$

Simplify $\sqrt{80}$

$$\sqrt{16} \times \sqrt{5}$$

$$4\sqrt{5}$$



Find y

C A H

$$y = \frac{8}{\cos 50}$$

$$y = 12.446 \text{ cm}$$