



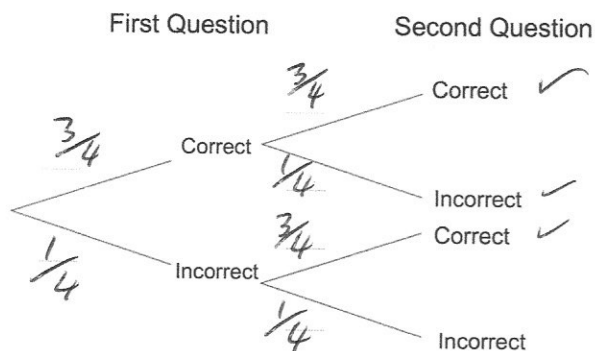
Martin truncates a number, y , to two decimal places.

The result is 8.04

Write down the error interval for y

$$8.045y < 8.05$$

The probability that Asma answers a question in a quiz correctly is $\frac{3}{4}$. She is asked two questions.



Complete the tree diagram.

Find the probability that Asma answers at least one of the two questions correctly.

$$\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

$$\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$$

$$\frac{1}{4} \times \frac{3}{4} = \frac{3}{16}$$

$$\frac{15}{16}$$

The number of visitors to a museum in 2018 was 6.2×10^5 620000

In 2019, the museum had 7.8×10^5 visitors 780000

Calculate the percentage increase.

$$\frac{160000}{620000} \times 100$$

$$25.8\%$$

Make x the subject

$$v^2 = u^2 + 2ax$$

$$v^2 - u^2 = 2ax$$

$$x = \frac{v^2 - u^2}{2a}$$