



Estimate the cube root of 50.

Which of these equations has a rational solution?

Equation 1

$$\frac{3}{4}x^2 = 30$$

Equation 2

$$\frac{2}{25}x^3 = 10$$

Equation 3

$$\frac{2}{3}x^4 = 6$$

The probability that Ben goes running on a Sunday is 0.8

The probability that Tomos goes running on a Sunday is 0.7

Calculate the probability that both Ben and Tomos do not go for a run on Sunday.

Roscoe invests £800 in a saving account that pays compound interest of:

2% for the first year

1% for the second year

0.5% for each year after

Work out how many years it will take for Roscoe to have at least £1000 in the savings account.

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|-----|----|-----|------|
| x | 2 | 4 | b |
| y | 20 | a | 5000 |

Find a and b .

y is inversely proportional to the square of x