

8th December



Corbettmaths

Nicola is organising a concert to raise money for charity.
Entry to the concert is £4.00
The number of people attending concert is 800 to the nearest hundred.

849

What is the greatest possible amount of money she raised for charity?

$$849 \times 4 =$$

£3396

Expand $(x - 3)(3x + 2)$

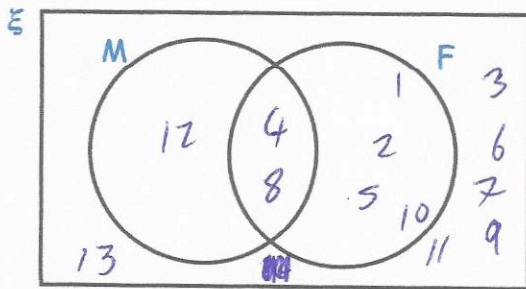
$$3x^2 + 2x - 9x - 6$$

$$3x^2 - 7x - 6$$

Time (t minutes)	Frequency	f _x
0 < t ≤ 10	5	8
10 < t ≤ 20	15	7
20 < t ≤ 30	25	2
30 < t ≤ 40	35	12
40 < t ≤ 50	45	3
	<u>32</u>	<u>750</u>

Work out an estimate for the mean

$$750 \div 32 = 23.4375$$



$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13\}$
M = Multiples of 4 (4, 8, 12)
F = Factors of 40 (1, 2, 4, 5, 8, 10)

Complete the Venn diagram

A number is chosen at random

Find $P(M \cup F)$

$$\frac{7}{13}$$

A number is chosen at random

Find $P(M \cap F)$

$$\frac{2}{13}$$