

- 13 Two circles have radii in the ratio 2:7
Circle the ratio of their areas.

2:7 4:14 4:49 1:3.5

[1 mark]

- 14 Here is some information about the number of pets each household in a certain street has.

One of the frequencies is missing.

Number of pets	Frequency	Midpoint
0–2	22	1
3–5	12	5
6–8		6
9–11	3	10

The mean is estimated to be 3.25 using the midpoints.

Find the value of the missing frequency.

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[3 marks]

- 15 a Factorise $10x^2 + 17x + 3$

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[2 marks]

b Hence solve the equation $10x^2 + 17x + 3 = 0$

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[2 marks]