

M4 = 3 days to go!

- 7 Jack is a pupil at Northfield Boys School. He wants to know how many times a month the people in his town go to a football match. He asks 600 pupils in his school.

Give **two** reasons why Jack's sample may not be representative of the people in his town.

Reason 1 _____
_____ [1]

Reason 2 _____
_____ [1]

- 20 (a) Expand and simplify $3(4x + 3)(2x - 1)$

Answer _____ [3]

- (b) Factorise $t^2 - 49$

Answer _____ [1]

17 (a) Factorise fully

$$30ax^2 + 5axy - 60ay^2$$

Answer _____ [3]

(b) Using your answer from above and given that $a \neq 0$ solve

$$30ax^2 + 5axy - 60ay^2 = 0$$

to find two answers for x in terms of y .