

M3 = 10 days to go!

19 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]

5 Work out the value of $5x + 3y$ when $x = -4$ and $y = 2$

Answer _____ [2]

19 (a) Expand $(3x - y)^2$

Answer _____ [2]

(b) Factorise $x^2 - 25$

Answer _____ [1]

11 Calculate the area of a circle with diameter 8 cm.

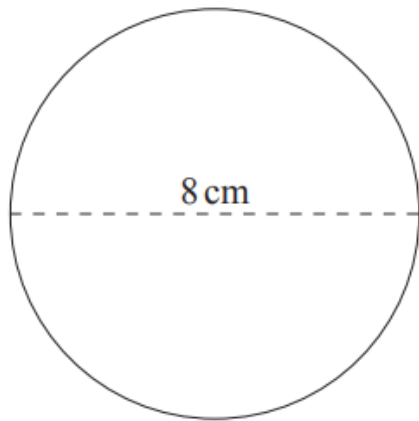


diagram not drawn accurately

Answer _____ [3]

14 (a) Write 96 as a product of prime factors.

Give your answer in index notation.

Answer _____ [3]

(b) Hence find the highest common factor of 96 and 72

Answer _____ [2]