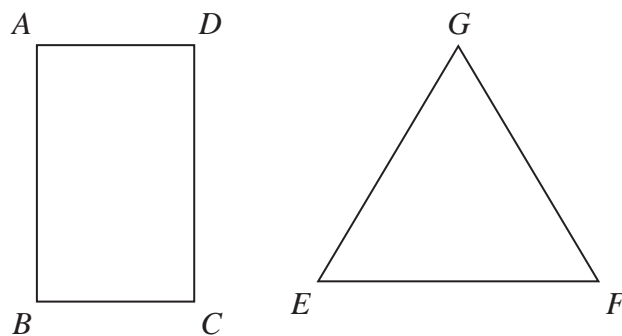4MB1 | 2021 | Jun | QP

PMT

19

Diagram **NOT** accurately drawn

ABCD is a rectangle in which $AB = x\sqrt{3}$ cm and $BC = x$ cm.
EFG is an equilateral triangle with sides of length *y* cm.

The area of rectangle *ABCD* is equal to the area of triangle *EFG*.

Find the ratio

the perimeter of the rectangle *ABCD* : the perimeter of the triangle *EFG*.

Give your answer in the form $\left(a + \sqrt{b}\right) : b$ where *a* and *b* are integers.

....

(Total for Question 19 is 4 marks)

Turn over ▶

P 6 5 9 2 0 A 0 1 5 2 4