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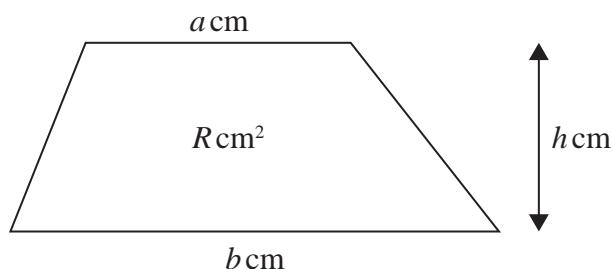


Diagram **NOT**  
accurately drawn

The diagram shows a trapezium in which the parallel sides are of length  $a$  cm and  $b$  cm

The height of the trapezium is  $h$  cm

The area of the trapezium is  $R$  cm<sup>2</sup>

Given that

$$b = 14.5 \text{ to the nearest } 0.5$$

$$h = 4.0 \text{ to the nearest } 0.1$$

$$R = 50 \text{ to the nearest whole number}$$

calculate the lower bound, to 3 significant figures, of  $a$

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 23 is 4 marks)

