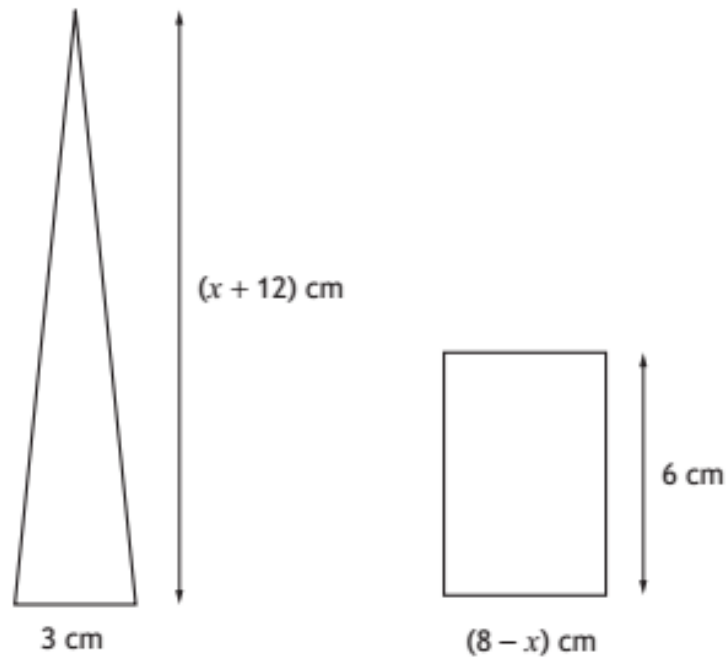


Inequalities and equations

YEAR	PAPER	QUESTION
2015	1	<p>Solve algebraically the inequality</p> $11 - 2(1 + 3x) < 39$ <p style="text-align: right;">3</p>
2015	2	<p>A function is defined as $f(x) = 3x + 2$.</p> <p>Given that $f(a) = 23$, calculate a.</p> <p style="text-align: right;">2</p>
2016	1	<p>Solve the equation</p> $\frac{2x}{3} - \frac{5}{6} = 2x.$ <p>Give your answer in its simplest form.</p> <p style="text-align: right;">3</p>
2017	1	<p>Solve, algebraically, the inequality</p> $19 + x > 15 + 3(x - 2).$ <p style="text-align: right;">3</p>
2018	2	<p>Solve, algebraically, the inequation</p> $3x < 6(x - 1) - 12.$ <p style="text-align: right;">3</p>

A triangle and rectangle are shown in the diagram.



(a) Find an expression for the area of the triangle.

1

(b) Given that the area of the triangle is equal to the area of the rectangle, find algebraically the value of x .

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