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National 5 Maths

Linear Equations

SQA past paper and specimen paper
questions and answers by topic

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**National 5 Maths
SQA 2016 Paper 1
Question 8**

Solve the equation

$$\frac{2x}{3} - \frac{5}{6} = 2x.$$

Give your answer in its simplest form.

3

Answer:

$$x = -\frac{5}{8}$$

National 5 Maths
SQA 2017 Paper 1
Question 15

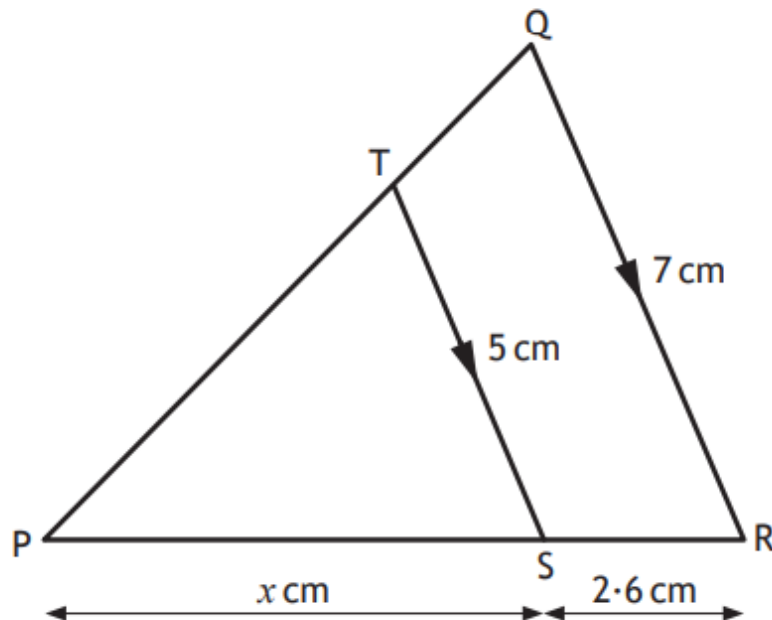
National 5 Maths

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In the diagram below:

- TS is parallel to QR
- TS = 5 centimetres
- QR = 7 centimetres
- SR = 2.6 centimetres



The length of PS is x centimetres.

Calculate the value of x .

3

Answer:

$$x = 6.5 \text{ or } x = \frac{13}{2}$$

National 5 Maths
SQA 2019 Paper 1
Question 14

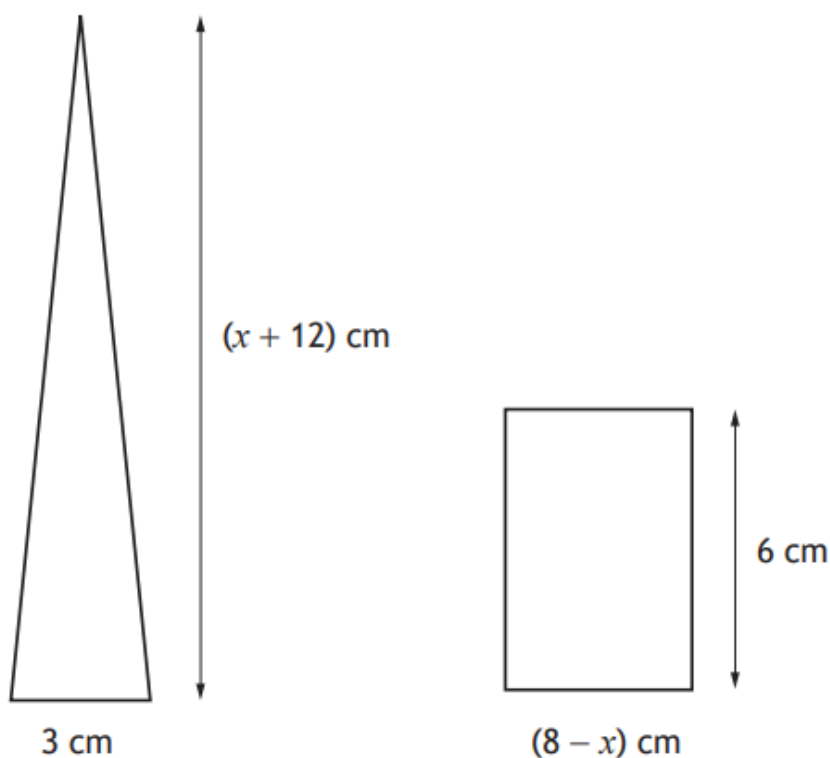
Solve the equation $\frac{x}{2} - 1 = \frac{3-x}{5}$.

3

Answer:

$$x = \frac{16}{7}$$

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 . 4

Answers:

(a) $\frac{3}{2}(x+12)$

(b) $x = 4$