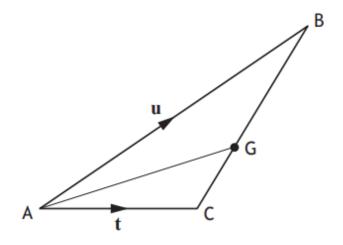
## National 5 Maths SQA 2021 Paper 2 Question 17



The triangle ABC is shown below



$$\overrightarrow{AB} = \mathbf{u} \text{ and } \overrightarrow{AC} = \mathbf{t}.$$

G is the point such that  $CG = \frac{1}{3}CB$ .

Express  $\overrightarrow{AG}$  in terms of  $\mathbf{u}$  and  $\mathbf{t}$ .

Give your answer in simplest form.

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Answer:

$$\frac{2}{3}\underline{t} + \frac{1}{3}\underline{u}$$
 (or equivalent)