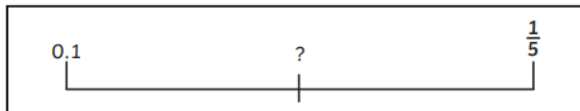


WEDNESDAY - LEVEL 3 REASONING AND PROBLEM SOLVING

- 1) Owen and Keeva have been asked to give the missing value of the mid-point on this number line as either a fraction, decimal or percentage.



I think the missing value must be 25%.



I think the missing value is $\frac{1}{8}$.

Is either child correct? How do you know?

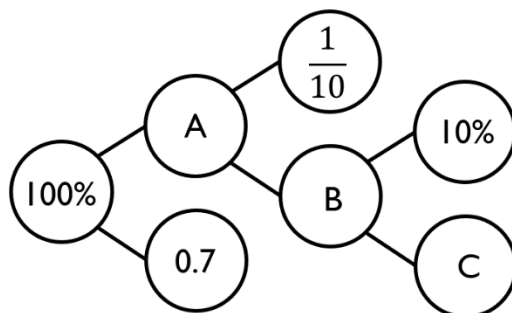
- 2) Are the following statements true or false? Explain your reasoning.

a) $\frac{1}{4} = 40\%$

b) $\frac{4}{5}$, $\frac{16}{20}$, 0.08 and $\frac{40}{50}$ are all equivalent to 80%.

c) 0.3 is halfway between $\frac{5}{20}$ and 35%.

Complete the part-whole model.
How many different ways can you complete it?



Can you create your own version with different values?

In his first Geography test, Mo scored 38%

In the next test he scored $\frac{16}{40}$

Did Mo improve his score?

Explain your answer.