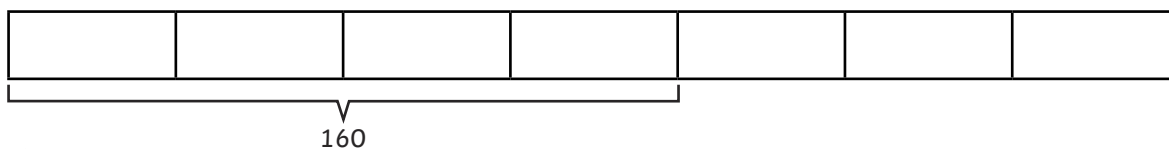


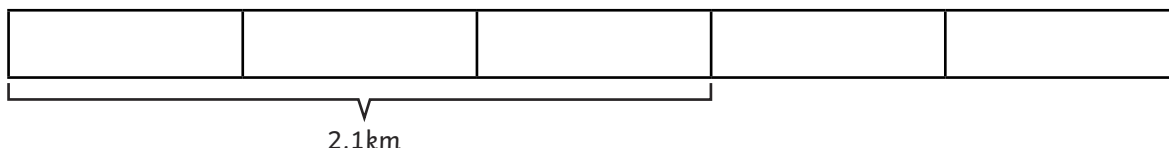


1) Use the information on the bar models to help you find what the whole is worth.

a)



b)



2) Use a bar model to represent and solve this problem:

Xander has run $\frac{2}{3}$ of the way around a running track. He has run 450m. What is the total length of the running track?

3)

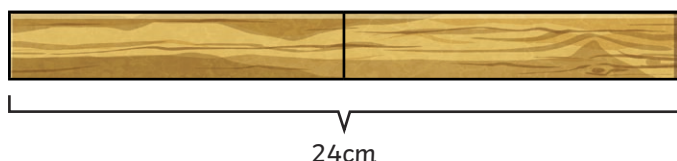
$\frac{4}{6}$ of _____ = 140	$\frac{3}{8}$ of _____ is 165	$\frac{2}{6}$ of _____ = 80	$\frac{5}{9}$ of _____ = 345



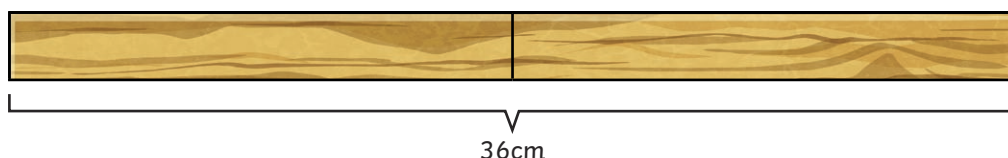


- 1) Owen is chopping two planks of wood into equal pieces. He chopped the first plank into 14 equal parts and the second plank into 8 equal parts.

Here are two pieces of wood from the first plank:



Here are two pieces of wood from the second plank:



Which of the two planks of wood was longer to start with? Explain your reasoning.

- 2) $\frac{3}{8}$ of a class of children have blonde hair.

There are 9 children with blonde hair.

How many children are there in the whole class?



Aneesha

I think that there must be 24 children in the class. To work this out, I divided 9 by 3 to find , then multiplied 3 by 8 to find out what or one whole was.

"I think the answer is 27. To work this out, I multiplied 9 by the numerator of the fraction, which was 3."

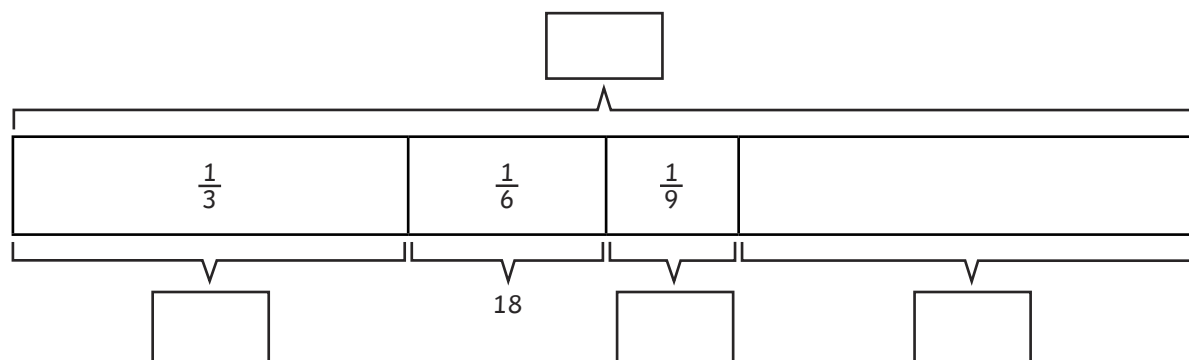


Owen

Whose method do you think is incorrect? Explain your answer.



- 1) If $\frac{1}{6}$ of this bar model has a value of 18, what are the other missing values?



- 2) One part of this bar model has a value of 20. Can you give possible values for the other parts of the model? Try to use a fraction with a different denominator for each part and to make each part have a different value. Find five different possibilities.

