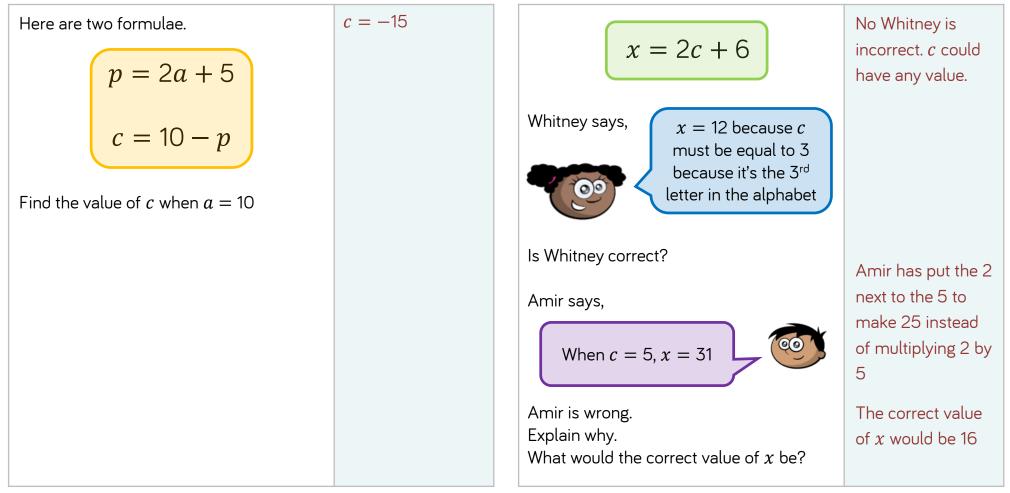


Substitution

Reasoning and Problem Solving





Formulae

Reasoning and Problem Solving

Jack and Dora are using the following formula to work out what they should charge for four hours of cleaning.

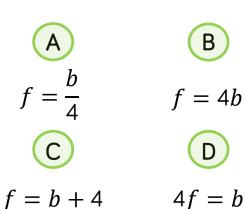
Cost in pounds = $20 + 10 \times \text{number of hours}$

Jack thinks they should charge £60 Dora thinks they should charge £120

Who do you agree with? Why? Jack is correct as multiplication should be performed first following the order of operations.

Dora has not used the order of operations – she has added 20 and 10 and then multiplied 30 by 4 The rule for making scones is use 4 times as much flour (f) as butter (b).

Which is the correct formula to represent this?



Explain why the others are incorrect.

B is correct.

A shows the amount of flour is a quarter of the amount of butter.

C shows the amount of flour is 4 more than butter.

D shows butter is 4 times the amount of flour.