

### Problem Solving 1

Using the cards below and any of the four operations, create three balanced equations where  $x = 1.5$ .

$$12x$$

$$27$$

$$\frac{1}{2}$$

$$20x$$

$$3$$

$$9$$

$$9x$$

Problem Solving 2

Choose a value for  $c$  and find three possibilities to complete the following equation.

$$\square c + \square = 16.25$$

16.25					
$y$	$y$	$y$	$y$	$y$	$+ ?$

Reasoning 1

Paul and Vanessa are solving the following algebraic equation.

$$6.5 + 5x = 21.5$$



Paul

This equation is impossible because 21.5 cannot be divided by 5.

$x$  must be 3 for this equation to be balanced.



Vanessa

Who is correct? Prove it.