


a) Which representation matches the equation $x+3=10$ ?




$$
=\begin{array}{lll}
+1+1+1 & +1+1+1 \\
+1+1+1 & +1+1+1
\end{array}
$$

$$
x
$$

$$
\begin{aligned}
& 3 x=12 \\
& x=4
\end{aligned}
$$


b) What equations do the other two representations show?
c) What is the value of $x$ in each equation?


Is the value of the letter $x$ the same in both equations?
Prove your answer and explain your reasoning.

$$
\begin{aligned}
& x+52.5=110 \\
& x+52.5=110 \\
& x=57.5 \\
& 3 x=172.5 \\
& 3 x=172.5 \\
& x=172.5 \div 3 \\
& x=57.5
\end{aligned}
$$

The value of $x$ is the same in both equations.





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## National Curriculum Aim

Express missing number problems algebraically.

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