1) a) Tick the representation which matches the equation $x+3=8$.
$A \stackrel{+1}{+1+1}$

B

b) Write down the two equations shown by the other two representations.
c) What is the value of $x$ in each equation?
$x=$
2) Compare the value of $x$ and $y$ in these equations using <, > and =.

You can draw representations to show your working out.
a) $x+4=16$
$y+5=16$

$\qquad$
b) $x-5=15$
$y-7=14$

$\square$
$\qquad$
c) $2 x=28$
$3 y=42$
$x=$

$\square$
$\qquad$
3) Form equations for the following number riddles and find the value of $x$ in each one.


1) Is the value of the letter $x$ the same in both equations? Prove your answer and explain your reasoning.
$x+74.5=125$
$4 x=202$

2) a) $x=15$


Do you agree with Nishi? Explain your reasoning.
b) Write four different expressions that will balance this equation. Use a different operation each time.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3) Does each bar model match the equation?

Explain your answer.

$3 x=30 \quad$| 3 | $x$ |
| :---: | :---: |
|  | 30 |

$\qquad$
$30=x+15$

| $x$ | 15 |
| :--- | :--- |
| 30 |  |

$x+3=30$ $\square$

1) What could the answer to this equation be? How many possible equations are there?

2) Create ten different equations using any of these digits, letters and symbols. Find the value of $x$ in each equation.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3) The total height of four sunflowers is 2.35 m . Sunflowers $A$ and $B$ are the same height. Find the height of sunflower $C$.


$\qquad$
