1)	a)	Tick the	representation	which	matches	the	equation x	+	3	=	8.
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b) Write down the two equations shown by the other two representations.

c) What is the value of *x* in each equation?

2) Compare the value of x and y in these equations using <, > and =. You can draw representations to show your working out.

a)
$$x + 4 = 16$$

a)
$$x + 4 = 16$$
 $y + 5 = 16$ $x = _____$ $y = _____$

b)
$$x - 5 = 15$$

c)
$$2x = 28$$

$$3y = 42$$

c)
$$2x = 28$$
 $3y = 42$ $x = ____ | y = ____$

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

a) I think of a number and add 127. The answer is 200.

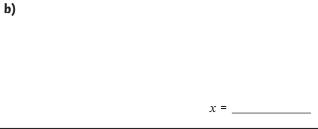
b) I think of a number and subtract 95. The answer is 74.

c) I think of a number and multiply it by 10. The answer is 65.

a)







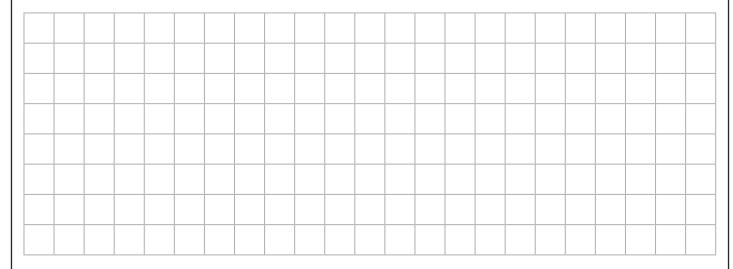


1) Is the value of the letter x the same in both equations? Prove your answer and explain your reasoning.



$$4x = 202$$

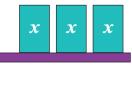
x + 74.5 = 125



2) a) x = 15



I can balance this equation using the expression 11 × 4.



Do you agree with Nishi? Explain your reasoning.

- **b)** Write four different expressions that will balance this equation. Use a different operation each time.
- **3)** Does each bar model match the equation? Explain your answer.

3	x
	30

$$x + 3 = 30$$

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





The value of x is a two-digit square number.

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

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

