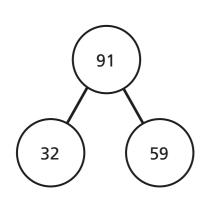


Properties of addition and subtraction

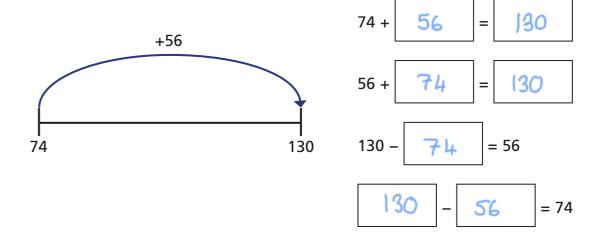
Which calculations are represented by the bar model? Tick your answers.

58	
23	35

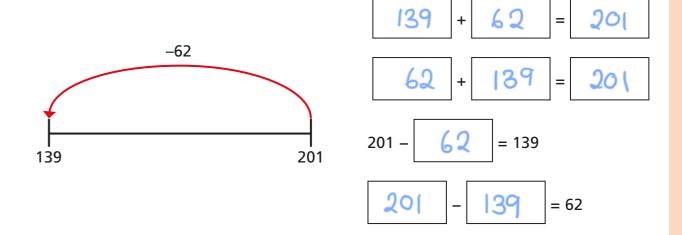
Write two additions and two subtractions represented by the part-whole model.



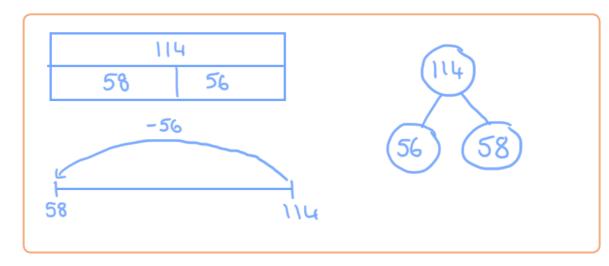
Complete the additions and subtractions represented by the number line.



Complete the additions and subtractions represented by the number line.

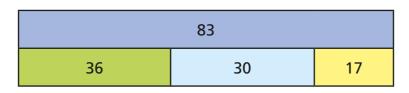


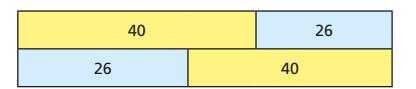
Draw a bar model, part-whole model and number line to represent the calculation 114 – 56 = 58





Which calculations are represented by the bar model? Tick your answers.



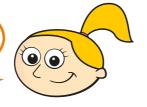




This bar model shows that addition is commutative.

Explain what Dexter means.

order so 40+26 = 26+40



Explain why Eva is wrong.

Nijah works out 57 + 64 + 43 like this:

$$57 + 64 + 43 = 57 + 43 + 64$$

$$= 100 + 64$$

$$= 164$$

a) Why did Nijah change the order of the numbers before adding them?

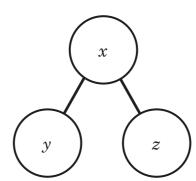
b) Write each of these additions in another order to make them easier. You do not need to work out the answers.

$$6 + 9 + 2 + 1 + 4$$

$$38 + 27 + 62$$

$$26 + 31 + 74 + 29$$

Write two additions and two subtractions represented by the part-whole model.



Show that these statements are always true.

$$a + b + c = a + c + b$$
 $a + b + c = c + a + b$

$$a + b + c = c + a + \cdots$$

