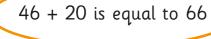
## Know and use mental addition and subtraction strategies for integers



Ron is working out 46 + 28 mentally.





Then I am going to add on the 8. 66 + 8 = 74

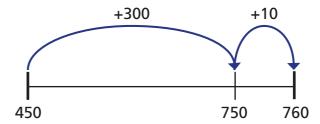
Work out the additions mentally.

You could use a method similar to Ron's.

2 Eva is trying to work out 240 + 320 mentally.

Write the steps she might follow to work it out.

Brett imagines a number line in his head to add two 3-digit numbers.



What two numbers do you think Brett is trying to add together?

Work out the additions mentally.

Work out the additions mentally.

Then write the steps in your thinking.

6 Amir wants to add together 72 and 99

I added 100 to 72 and then subtracted 1

So the answer is 171

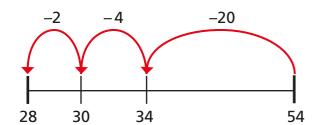


Amir is correct.

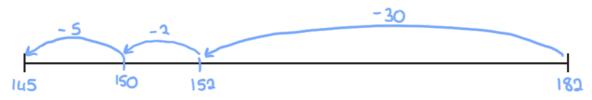
Explain why Amir's method works.

Use a method similar to Amir's method in question 6 to work out the additions mentally.

The number line shows what Kim does mentally to work out 54 – 26



Show the calculation you might do mentally to work out 182 – 37



9 Here are some subtractions.

Work them out mentally.

Talk about your method with a partner.

Rosie is working out 244 – 99 mentally.

$$244 - 100 = 144$$
  
 $144 - 1 = 143$ 

Explain Rosie's mistake.



Work out the calculations mentally.

f) 
$$f10,000 - f3,725 = f$$
 6,275