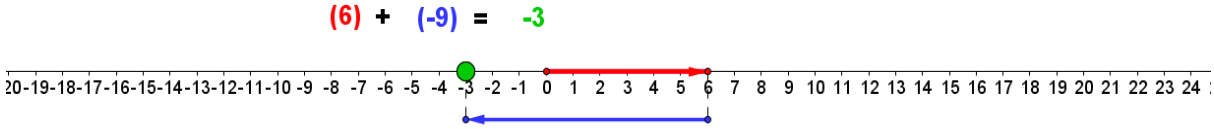
Student Activity: Adding Integers

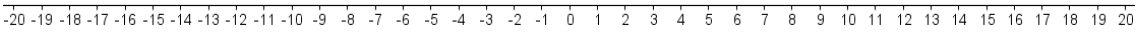
Use in connection with the interactive file, 'Adding Integers', on the Student's CD.

For example show (6) + (-9) = - 3:

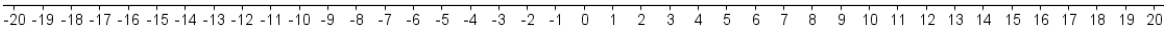


1. Using the example above as a guide, show the following addition of integers on the number lines provided:

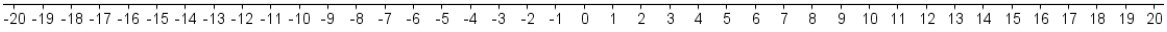
   (a) $4 + (-3)$

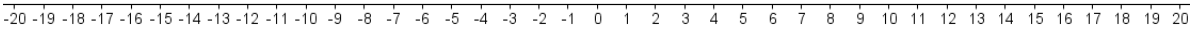
   (b) $4+(-2)$

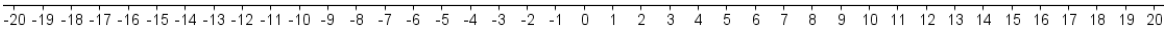
   (c) $-5+6$

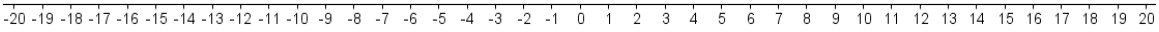
   (d) $-4+(-2)$

   (e) $8 - 8$ Note this means $8 + (-8)$

   (f) $4-6$ Note this means $4+ (-6)$.

2. Calculate the following:

   a. $4 + 5$

   b. $4 - 5$

   c. $-4 + 5$

   d. $-4 - 5$

   e. $-8 - 7$

   f. $8 - 7$

   g. $-7+8$

   i. $-9 + 9$

3. Laura owes €5 and she repays €2, how much does she owe then?

_____

4. Anne owes €10 and borrows a further €5, how much does she owe now?

_____

5. Patrick owes €8 and a week later his aunt gives him €25. If he pays back the amount he owes, how much does he now have?

_____

6. Kieran owes €5 but his aunt gives him €6 and his uncle gives him €7. Does he have enough to buy €10 phone credit if he pays back the money he owes? Explain your answer.

_____

_____

7. The current temperature is minus 2^{o}C. What temperature should we expect if this is due to increase by 7^{o}C in the afternoon and then decrease by 10^{o}C at night.

_____

8. Grainne is on the 3rd floor of a building and walks down 4 sets of stairs, what floor is she now on, provided each set of stairs brings you down one floor?

_____

9. Write your own questions using the numbers below:

   (a) $-3 + 10$

   _____

   _____

   (b) $-4 + (-8)$

   _____

   _____

   (c) $7 + (-10)$

   _____

   _____

10. What is the largest negative integer?

_____