Establish the rules of addition and subtraction involving two integers with same or different signs. CCSS.MATH.CONTENT.7.NS.A.1.A 7.NS.A.1.B, 7.NS.A.1.C and 7.NS.A.1.D | US_EN_06_MAT_C58_WS_m1

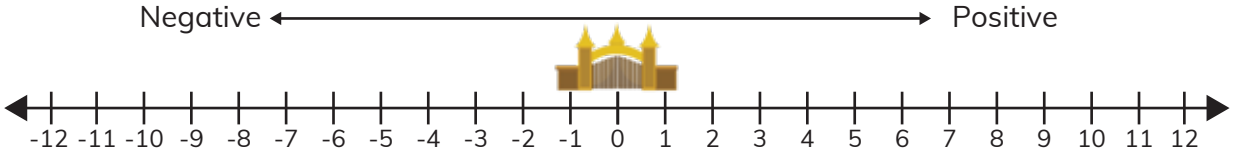
After winning the race, you plan to open your training facility to help competitors practice for next year's race.

1 Your training facility will have 3 floors above the ground and 2 floors underground. Circle the correct options to complete the given sentences.

a 3 is a (positive / negative) integer that lies to the (left / right) of zero on a number line.

b -2 is a (positive / negative) integer that lies to the (left / right) of zero on a number line.

2 The entrance gate to the facility extends 7 m towards the right and 7 m towards the left. Observe the number line and answer the questions that follow. Circle the correct options to complete the given sentence.

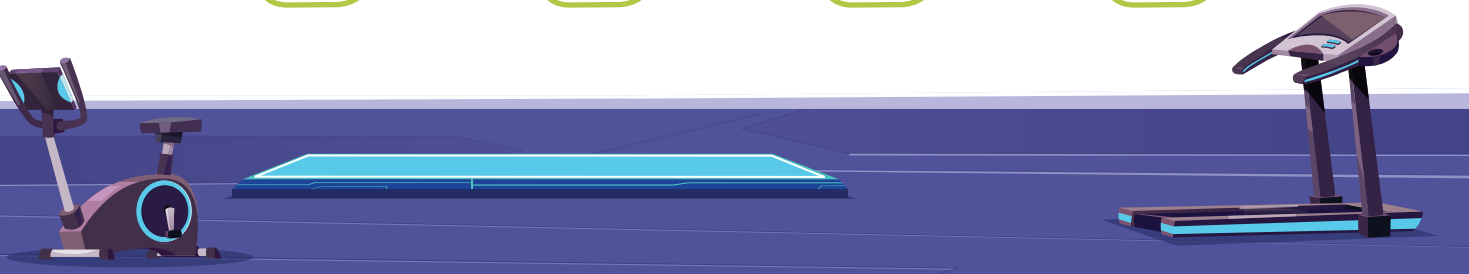


a The integer -7 is 7 steps away from 0 on the (left / right)

and The integer 7 is 7 steps away from 0 on the (left / right).

b The additive inverse of -7 is _____. Check the correct box to complete the sentence.

☐ 7 ☐ 6 ☐ 5 ☐ 4



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3 The training facility will have 3 parking floors above the ground and two underground parking basements. **Note:** Above the ground is positive and underground is negative.

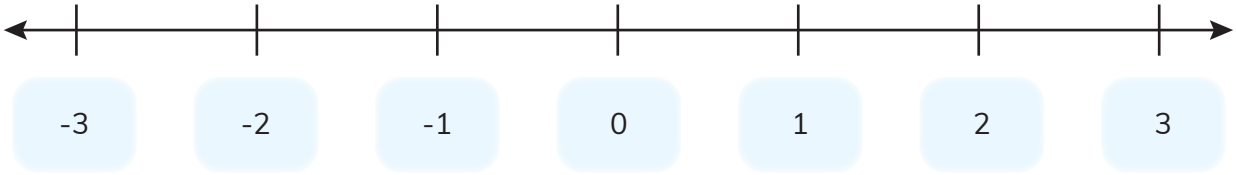
Use the number line to evaluate the following :

3 + (-2) = **?**

Step 1 : Subtract the smaller absolute value from the greater absolute value.

| 3 | - | 2 | =

Step 2 : Put the sign of the greater absolute value. Circle the correct option on the number line.



4 You plan to give one month of free training to the person who solves the given math equation. A trainee says that the result of the math equation is 2, but you think that she is incorrect. Help her solve this expression: (5) - |(-1) + (-2)| = **?**.

Step 1 : Add absolute value of -1 and -2 because both have the same sign. Solution of this step is (-1) + (-2) = _____. Check the correct box.

☐ 1 ☐ 3 ☐ -1 ☐ -3

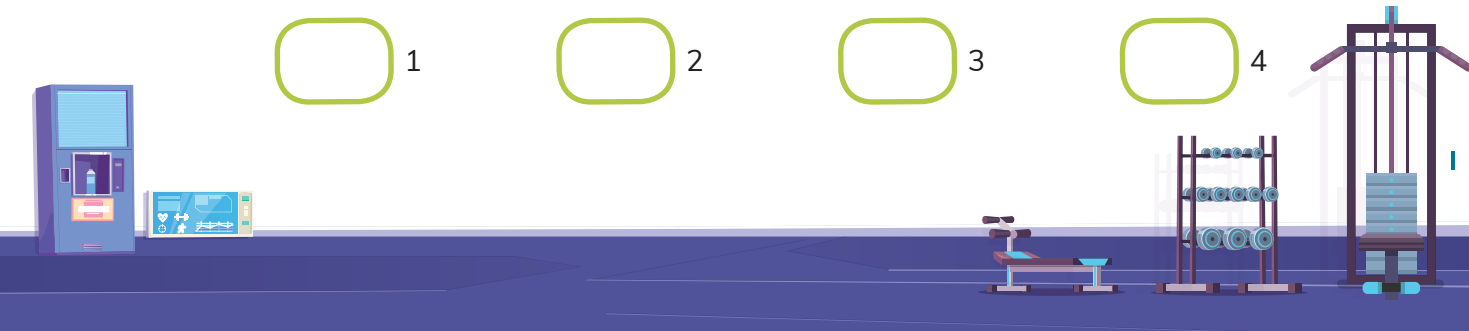
Hint: |-a| = a

Step 2 : The absolute value of the answer in Step 1 is _____. Check the correct box.

☐ 1 ☐ 3 ☐ -1 ☐ -3

Step 3 : Finally, subtract the answer of Step 2 from 5. The final expression is (5) - |(-1) + (-2)| = _____. Check the correct box.

☐ 1 ☐ 2 ☐ 3 ☐ 4



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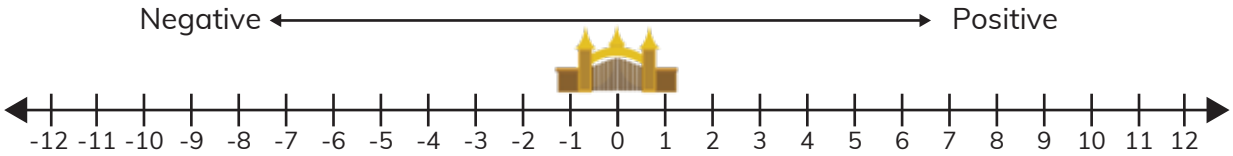
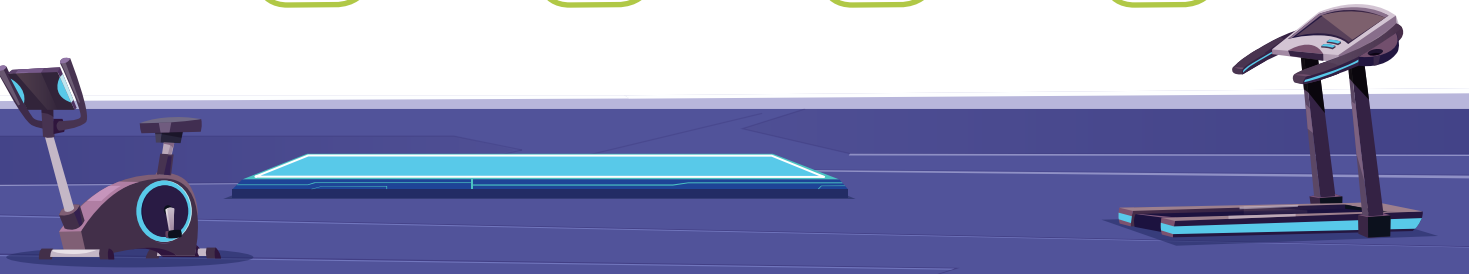


a The integer -7 is 7 steps away from 0 on the (left / right) and The integer 7 is 7 steps away from 0 on the (left / right).

b The additive inverse of -7 is _____. Check the correct box to complete the sentence.

- [x] 7
- [ ] 6
- [ ] 5
- [ ] 4



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3 The training facility will have 3 parking floors above the ground and two underground parking basements. **Note:** Above the ground is positive and underground is negative.

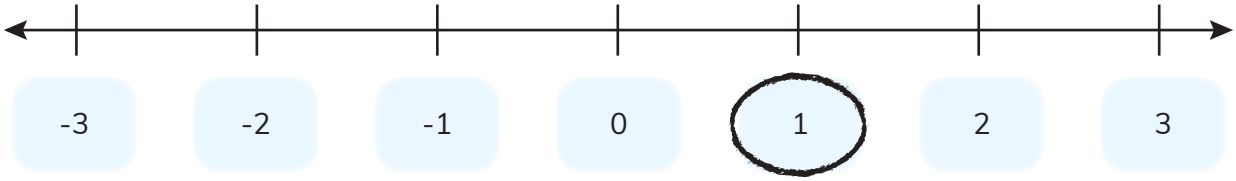
Use the number line to evaluate the following :

3 + (-2) = **?**

Step 1 : Subtract the smaller absolute value from the greater absolute value.

| 3 | - | 2 | = 1

Step 2 : Put the sign of the greater absolute value. Circle the correct option on the number line.



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