

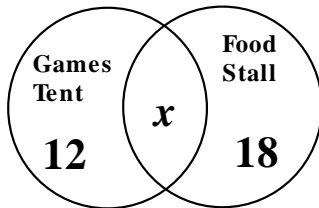
## Grade 8 Mathematics Worksheet

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### Algebraic equations and data organization

#### Questions:

1.



There are 38 learners in your homeroom class. At the school fete your class is running a games tent, and a food stall. 12 learners are helping permanently in the games tent, and 18 are permanently in the food stall. There are  $x$  learners that are moving between the two venues, and two learners are absent. Find the value of  $x$ .

- A) 18
- B) 8
- C) 6
- D) 10

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### Solution

1. The total number of learners is 38 and there are only 30 learners. Therefore 8 more learners are still required. But two are absent. So  $x$  must be 6. Solution is (C).

**OR by algebra:**  $x + 12 + 18 + 2 = 38$ . So  $x = 38 - 32 = 6$ .

To interpret the Venn diagram is important and it can be a very useful tool to organise data.