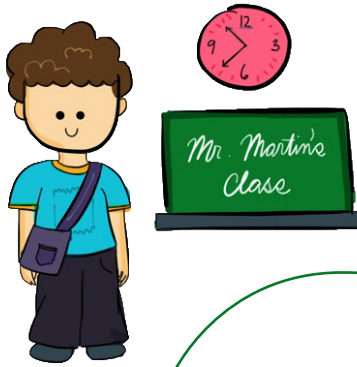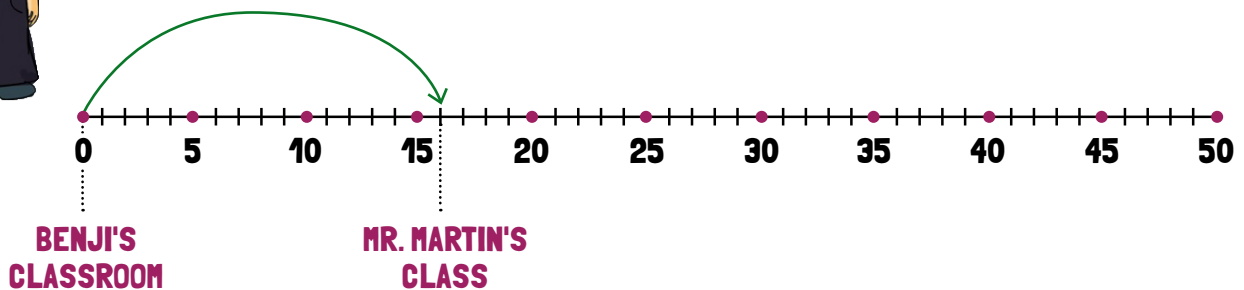# SOLVING MULTI-STEP ADDITION PROBLEMS USING A NUMBER LINE
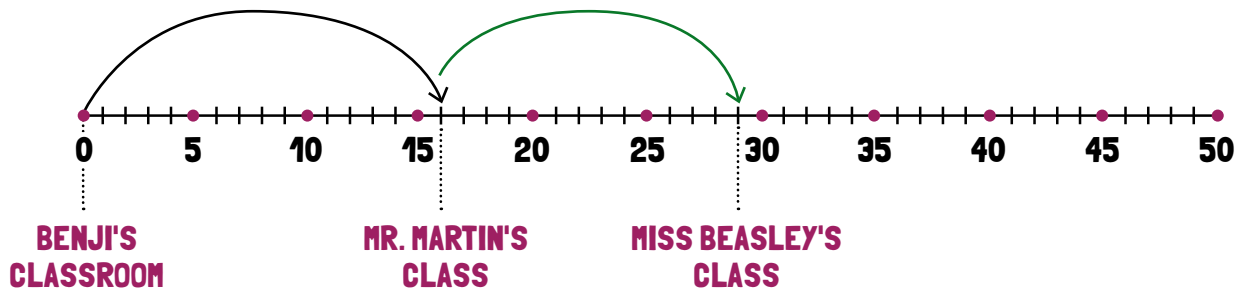
A number line can be a helpful tool when solving multi-step problems. Read the problem below and follow the steps to solve the problem using the number line.
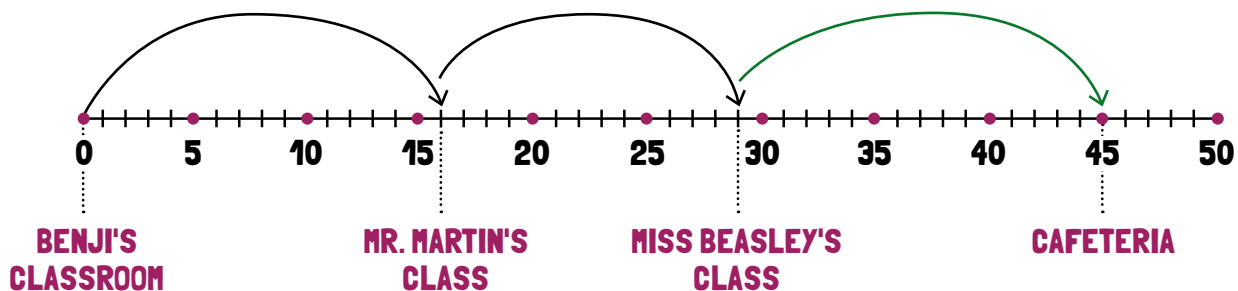
Benji left his classroom and walked down the hall 16 meters to Mr. Martin's class. Then he walked from Mr. Martin's class to Miss Beasley's class 13 meters further down the hall. After visiting Miss Beasley's class, Benji traveled 17 more meters down the hall to the cafeteria for lunch. How far is Benji's classroom from the cafeteria?

To solve the problem using the number line, you start at zero (Benji's clasroom) and draw an arrow landing on the 16 to the show the 16 meters that Benji traveled to get to Mr. Martin's class.
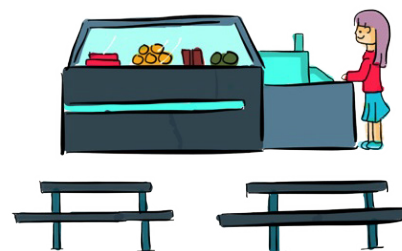
Next, count 13 more spaces on the number line and draw an arrow from the 16 to that spot. This is where Miss Beasley's class is located.

Finally, count 17 more spaces down the number line and draw an arrow to Benji's final destination, the cafeteria. The number you finally land on is your answer.

So, **16m + 13m + 17m = 45m** and Benji's classroom is 45 meters from the cafeteria.

Now, you try. Read the problems and use the number lines to help you solve them. Then, write a number sentence to go with each problem.
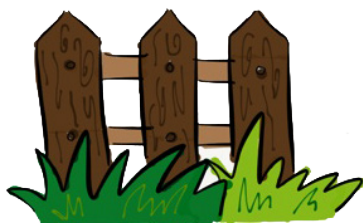
The Rogers family is going on a short trip. They leave their house and travel 22 miles and stop to eat breakfast. They get back in the car and travel another 16 miles to a rest stop. Then, they travel another 12 miles to get to the zoo. How many miles did the Rogers family drive to get to the zoo?
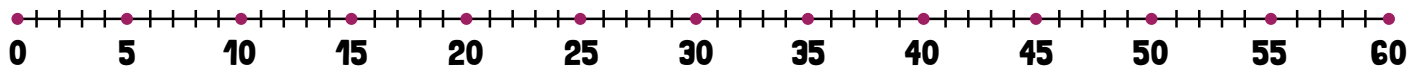
```
0    5    10   15   20   25   30   35   40   45   50   55   60
```

Number sentence [   ]

The Rogers family drove [   ] **miles to get to the zoo.**

John is building a fence. The first hour he built a 14 foot section of fence. The second hour he built a 23 foot section of fence. The third hour he built a 20 foot section of fence. How long was the fence that John built in 3 hours?

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0    5    10   15   20   25   30   35   40   45   50   55   60
```

Number sentence [   ]

John's fence is [   ] **feet long.**