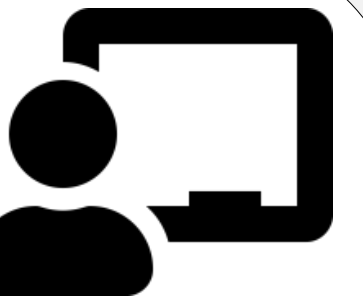# Word Problem for length using Subtraction - Customary units
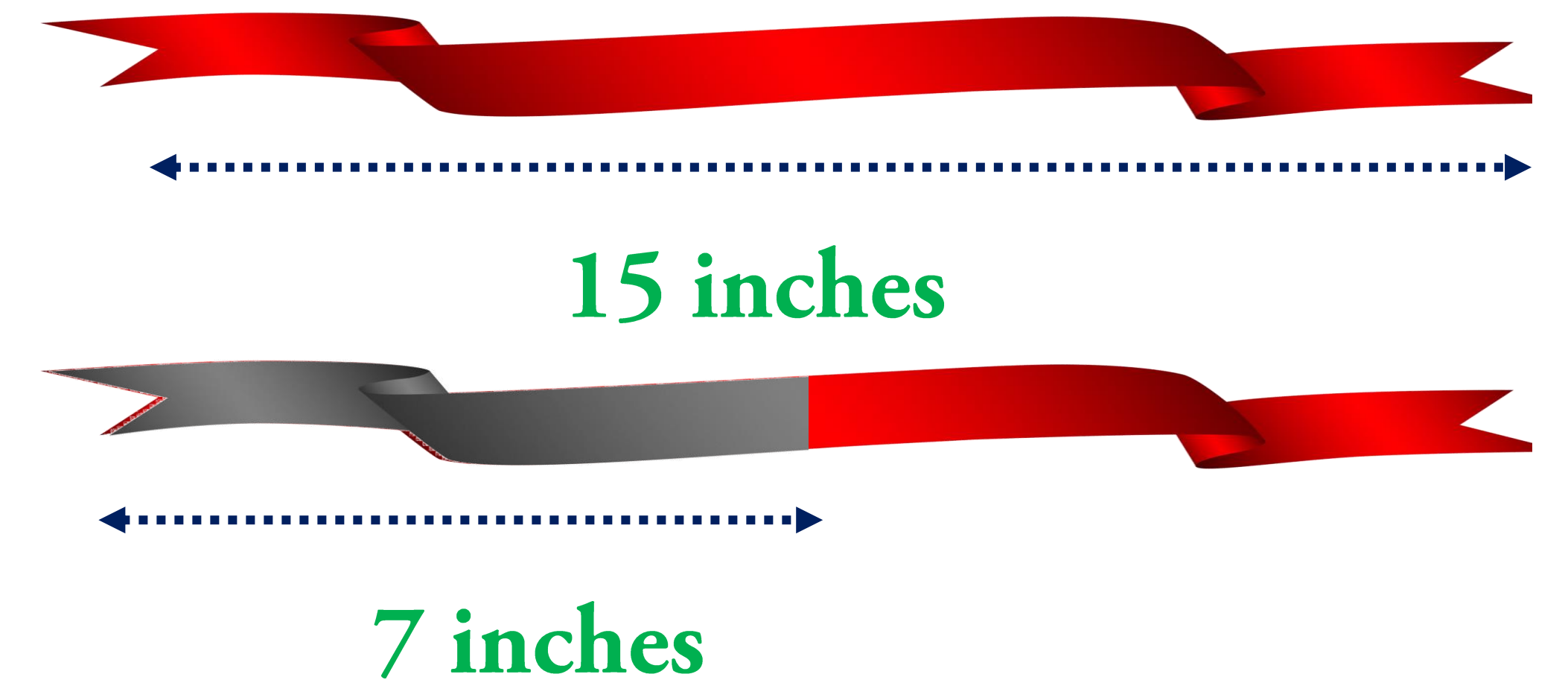
Kaviya has a piece of ribbon that is 15 inches long. She cuts off a piece that is 7 inches long. How long is the ribbon now?

Solution:

Initial length of the ribbon = **15 inches**

Cut off length of the ribbon = **7 inches**

15 inches

7 inches

Difference = Initial length of the ribbon − Cut off length of the ribbon

= **15 inches** − **7 inches**

= **8 inches**

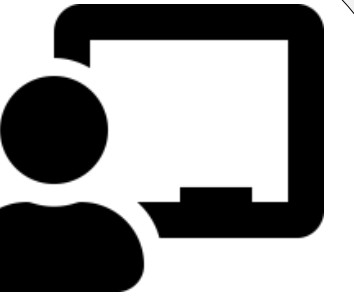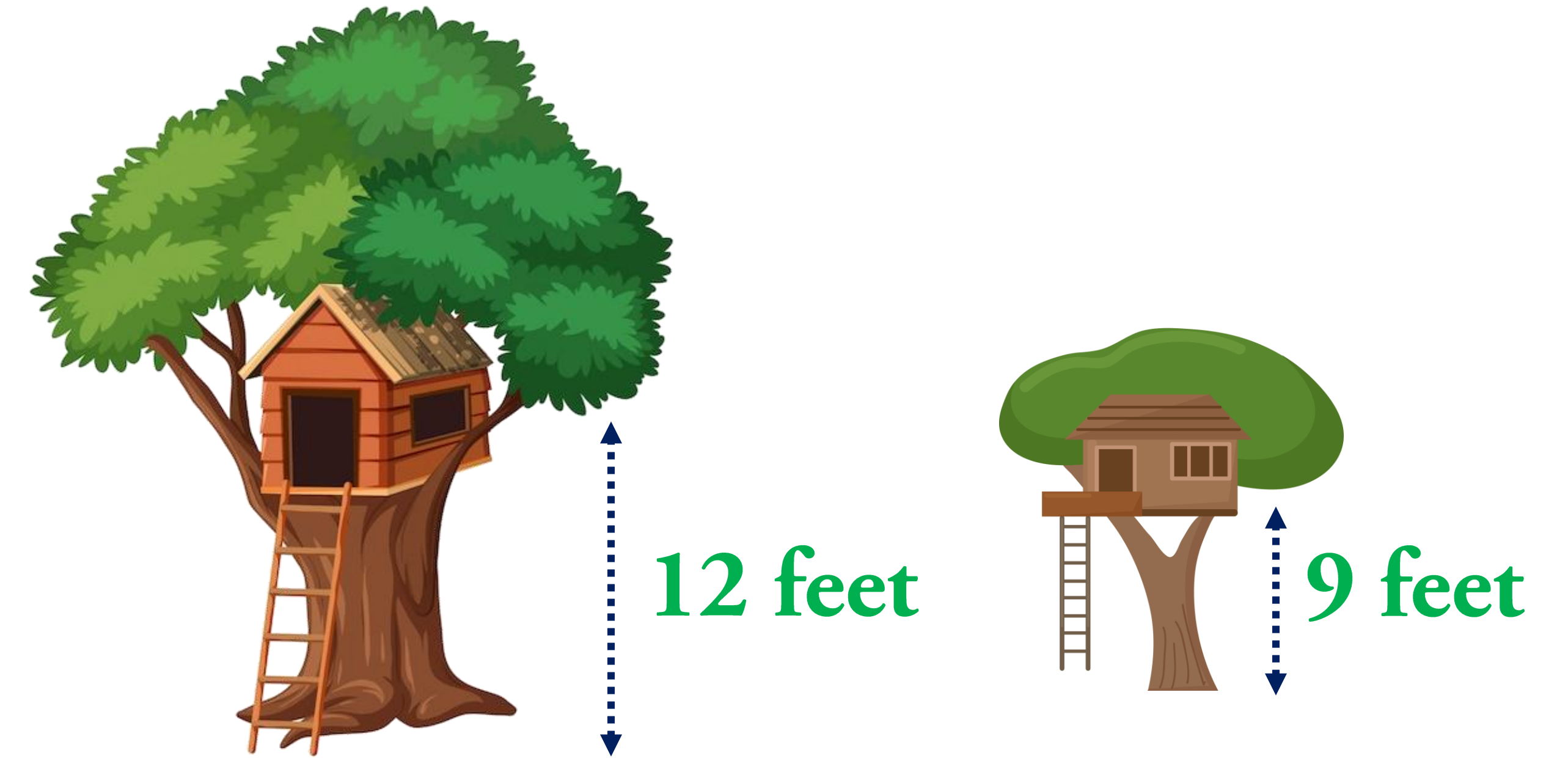**The piece of ribbon is now 8 inches long.**

John's treehouse is 12 feet above the ground. His friend's treehouse is 9 feet above the ground. How much higher is John's treehouse than his friend's treehouse?

Solution:

John's treehouse height   =   12 feet

John friend's treehouse height   =   9 feet

Difference   =   John's treehouse height   –   John friend's treehouse height

=   12 feet   –   9 feet

=   3 feet

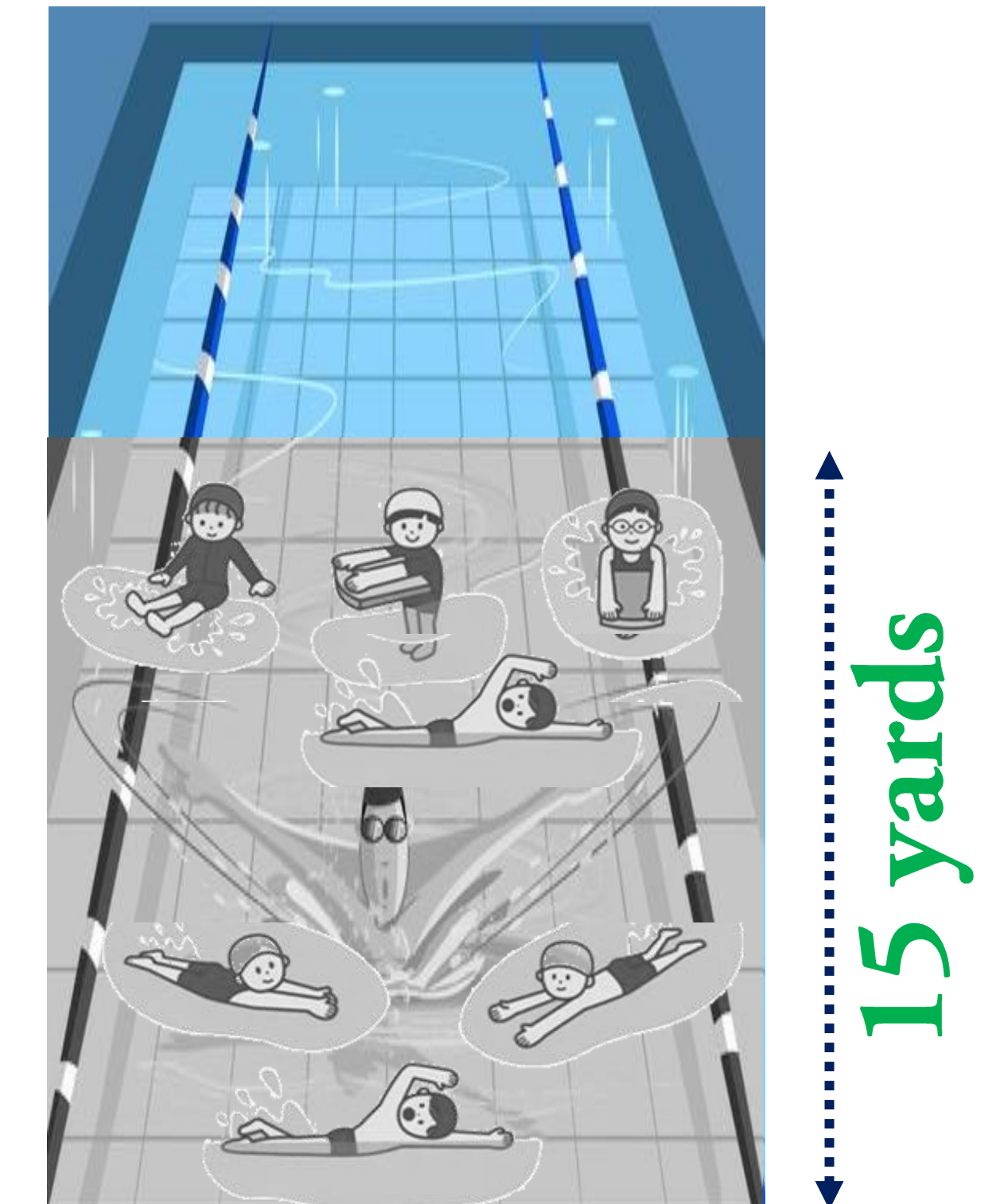John's treehouse is 3 feet higher than his friend's treehouse.

A swimming pool is 25 yards long. If 15 yards are already occupied by swimmers, how much space is left in the pool?

Solution:

Total pool length = **25 yards**

Space occupied by the swimmers = **15 yards**

Remaining space = Total pool length − Occupied space

= **25 yards** − **15 yards**

= **10 yards**
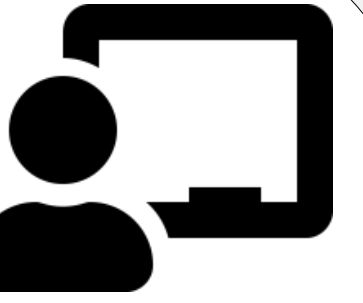
10 yards of space are left in the pool.

The Johnson family is driving to visit their grandparents, who live 50 miles away. They have already driven 38 miles. How many miles are left in their trip?

Solution:

Total distance = **50 miles**

Distance already driven = **38 miles**

50 miles

38 miles

Remaining distance = Total distance – Distance covered

= **50 miles** – **38 miles**

= **12 miles**

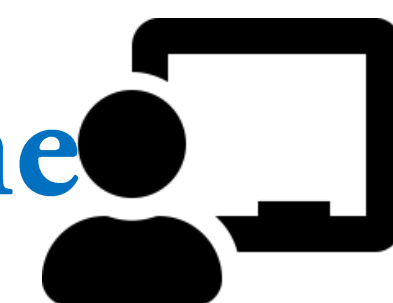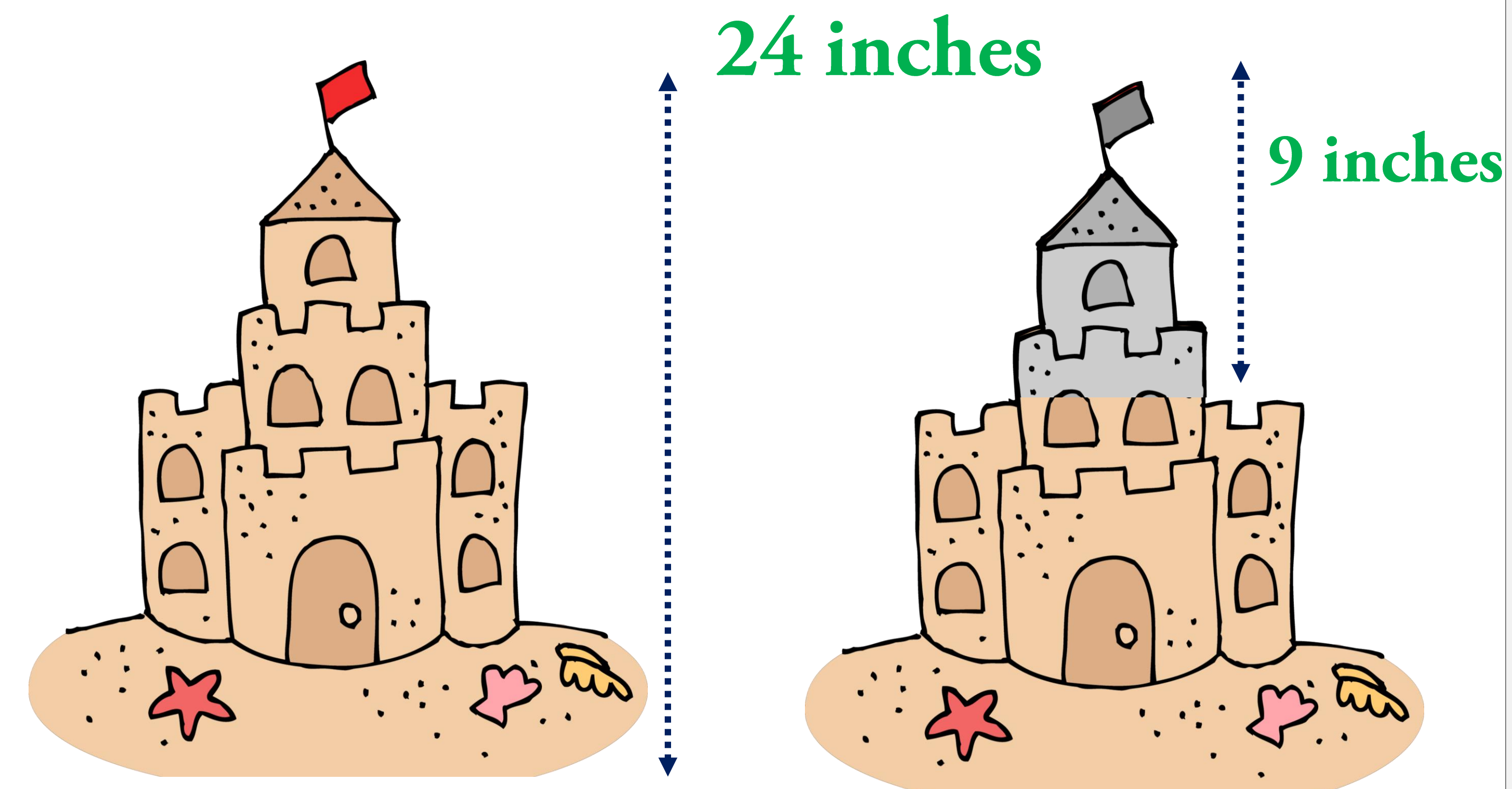**The Johnson family has 12 miles left in their trip.**

Ben built a sandcastle that was 24 inches tall. The waves knocked off 9 inches of the sandcastle. How tall is the sandcastle now?

24 inches

9 inches

Solution:

Initial height of sandcastle   =   **24 inches**

Amount knocked off sandcastle   =   **9 inches**

Remaining height   =   Initial height of sandcastle   –   Amount knocked off sandcastle

=   **24 inches**   –   **9 inches**

=   **15 inches**
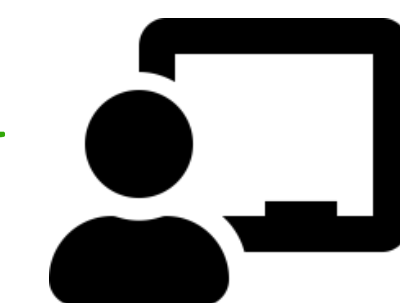
The sandcastle is now **15 inches** tall.

The zoo is 18 miles from Ben's house. He has already travelled 9 miles. How many more miles does he have to travel to get to the zoo?
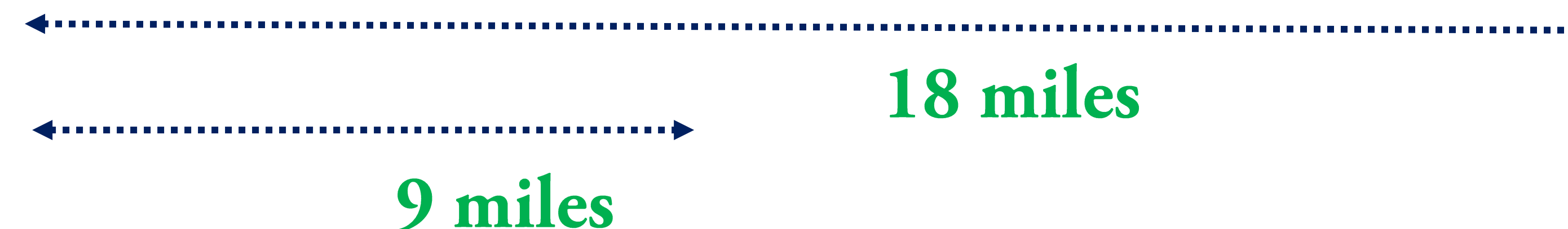
Solution:

Total distance $=$ **18 miles**

Distance already travelled $=$ **9 miles**

18 miles

9 miles

Remaining distance $=$ Total distance $-$ Distance already travelled

$=$ **18 miles** $-$ **9 miles**

$=$ **9 miles**

Ben has to travel **9 miles** to get to the zoo.