## mobius

Math worksheet on *'Speed - Person in Train - Solve for Train Length (Level 1)'*. Part of a broader unit on *'Speed, Distance, and Time Logic Challenges - Intro'*

Learn online: app.mobius.academy/math/units/speed_distance_time_logic_intro/

**1** In 30 s, a person walks from the back to the front of a train that is going 6 m/s. The person's speed relative to the ground is 9 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 110 m | 80 m | 90 m | 95 m |

**2** In 20 s, a person walks from the back to the front of a train that is going 4 m/s. The person's speed relative to the ground is 7 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 45 m | 60 m | 55 m | 65 m |

**3** In 10 s, a person walks from the back to the front of a train that is going 5 m/s. The person's speed relative to the ground is 6 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 15 m | 10 m | 25 m | 5 m |

**4** In 30 s, a person walks from the back to the front of a train that is going 3 m/s. The person's speed relative to the ground is 4 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 30 m | 55 m | 45 m | 25 m |

**5** In 20 s, a person walks from the back to the front of a train that is going 6 m/s. The person's speed relative to the ground is 11 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 125 m | 100 m | 120 m | 85 m |

**6** In 20 s, a person walks from the back to the front of a train that is going 6 m/s. The person's speed relative to the ground is 7 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 10 m | 40 m | 5 m | 20 m |

**7** In 10 s, a person walks from the back to the front of a train that is going 5 m/s. The person's speed relative to the ground is 10 m/s. How long is the train?

| a | b | c | d |
|---|---|---|---|
| 35 m | 75 m | 40 m | 50 m |