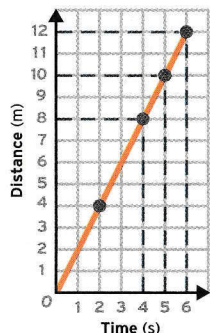
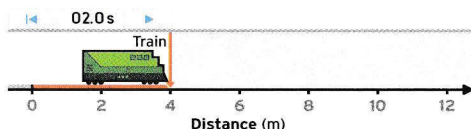


> WORKED EXAMPLE

Describe the motion of the train.



STEP 1 Find the distance the object travels.

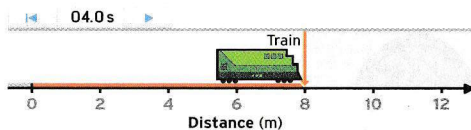


The train travels 4 meters in 2 seconds.

STEP 2 Use the graph to find the distance.

The train travels 10 meters in 5 seconds.

STEP 3 Find the time the train takes to travel.



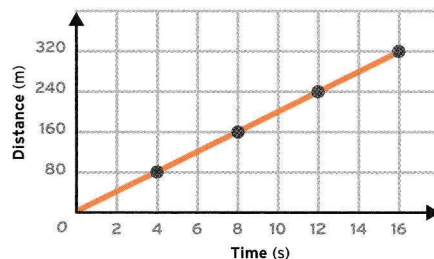
The train travels 8 meters in 4 seconds.

STEP 4 Use the graph to find the time.

The train travels 12 meters in 6 seconds.

> TRY IT

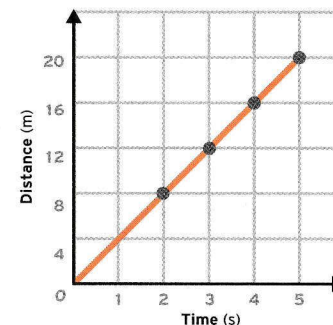
1 The graph shows the motion of an airplane. How long does it take the airplane to travel 320 meters?



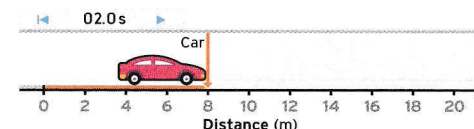
The airplane travels 320 meters in _____ seconds.

> GUIDED LEARNING

2 Describe the motion of the car.



STEP 1 Find the distance the object travels.

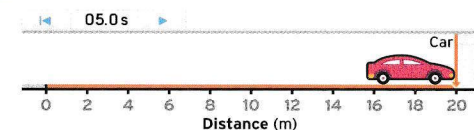


The car travels _____ meters in 2 seconds.

STEP 2 Use the graph to find the distance.

The car travels _____ meters in 4 seconds.

STEP 3 Find the time the car takes to travel.



The car travels 20 meters in _____ seconds.

STEP 4 Use the graph to find the time.

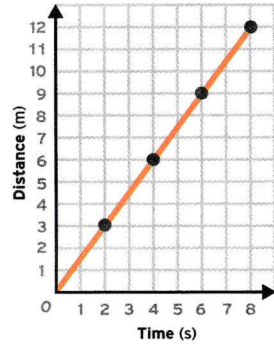
The car travels 12 meters in _____ seconds.

horizontal axis (*n*) a reference line on a graph that runs straight across from left to right

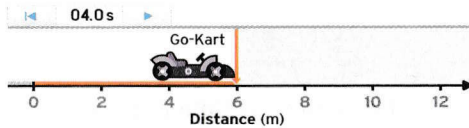
vertical axis (*n*) a reference line on a graph that runs straight up and down

> PRACTICE

3 Describe the motion of the go-kart.



STEP 1 Find the distance the object travels.

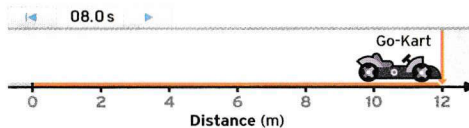


The go-kart travels _____ meters in 4 seconds.

STEP 2 Use the graph to find the distance.

The go-kart travels _____ meters in 6 seconds.

STEP 3 Find the time the go-kart takes to travel.

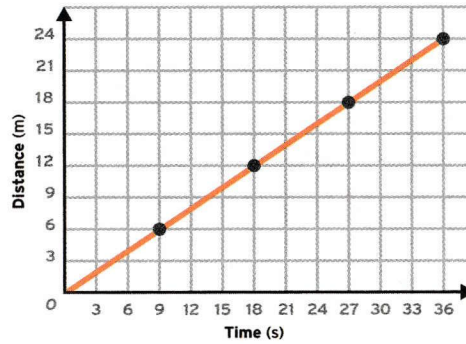


The go-kart travels 12 meters in _____ seconds.

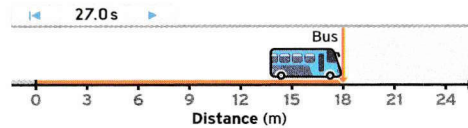
STEP 4 Use the graph to find the time.

The go-kart travels 3 meters in _____ seconds.

4 Describe the motion of the bus.



STEP 1 Find the distance the object travels.

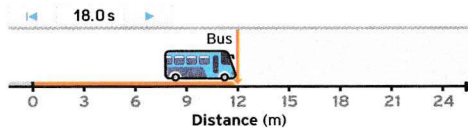


The bus travels _____ meters in 27 seconds.

STEP 2 Use the graph to find the distance.

The bus travels _____ meters in 9 seconds.

STEP 3 Find the time the bus takes to travel.

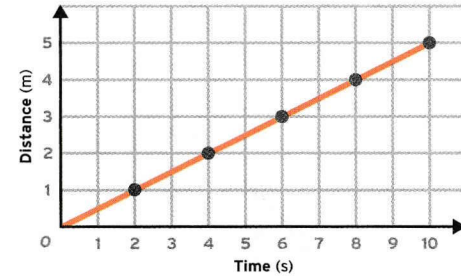


The bus travels 12 meters in _____ seconds.

STEP 4 Use the graph to find the time.

The bus travels 24 meters in _____ seconds.

> Describe the motion of the train.



The train travels _____ meters in 6 seconds.

> What happens to the distance as the time increases?

SCORE 0 1 2

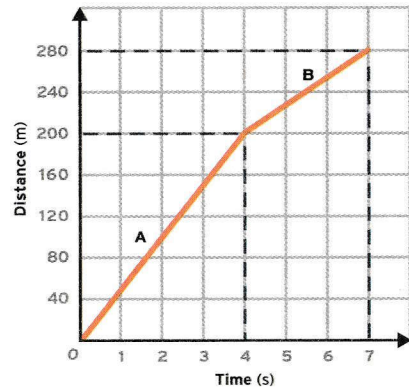
0 = Incorrect or No Response
1 = Partial Response
2 = Complete and Accurate

> WORKED EXAMPLE

> TRY IT

> GUIDED LEARNING

Describe the motion in the story.

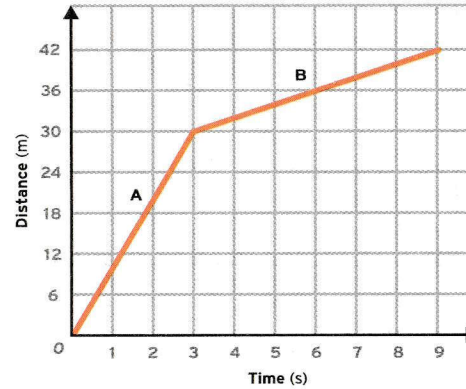


STEP 1 Find the change in time in part A.
 Part A starts at 0 seconds and ends at 4 seconds.
 The train travels for 4 seconds.

STEP 2 Find the change in distance in part A.
 Part A starts at 0 meters and ends at 200 meters.
 The train travels 200 meters in 4 seconds.

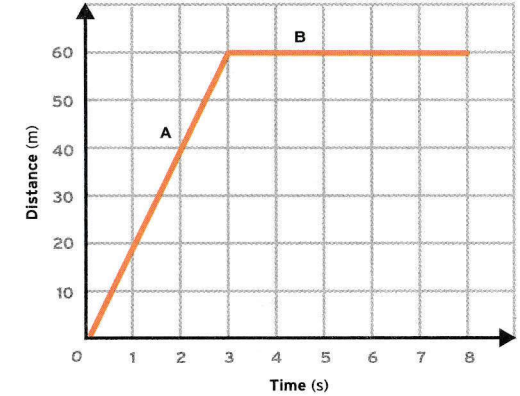
STEP 3 Describe the motion in part B.
 The train travels 80 meters in 3 seconds.

1 Describe the motion in the story.



In part A, the bus travels _____ meters in _____ seconds.
 In part B, the bus travels _____ meters in _____ seconds.

2 Describe the motion in the story.



STEP 1 Find the change in time in part A.
 Part A starts at _____ seconds and ends at _____ seconds.
 The train travels for _____ seconds.

STEP 2 Find the change in distance in part A.
 Part A starts at _____ meters and ends at _____ meters.
 The train travels _____ meters in _____ seconds.

STEP 3 Describe the motion in part B.
 The train travels _____ meters in _____ seconds.

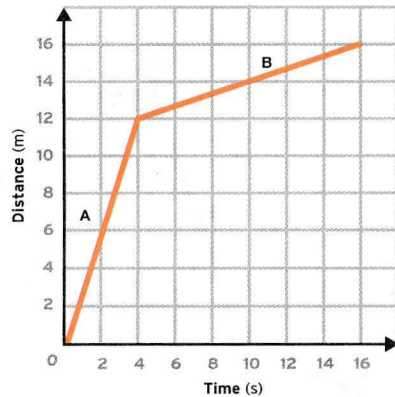
story graph (*n*) a graph that tells the story of the motion of a person or object over time

motion (*n*) the change in location with respect to time and the starting point



> PRACTICE

3 Describe the motion in the story.



STEP 1 Find the change in time in part A.

Part A starts at _____ seconds and ends at _____ seconds.

The car travels for _____ seconds.

STEP 2 Find the change in distance in part A.

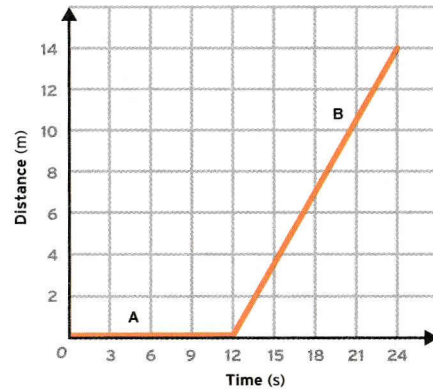
Part A starts at _____ meters and ends at _____ meters.

The car travels _____ meters in _____ seconds.

STEP 3 Describe the motion in part B.

The car travels _____ meters in _____ seconds.

4 Describe the motion in the story.



STEP 1 Find the change in time in part A.

Part A starts at _____ seconds and ends at _____ seconds.

The truck travels for _____ seconds.

STEP 2 Find the change in distance in part A.

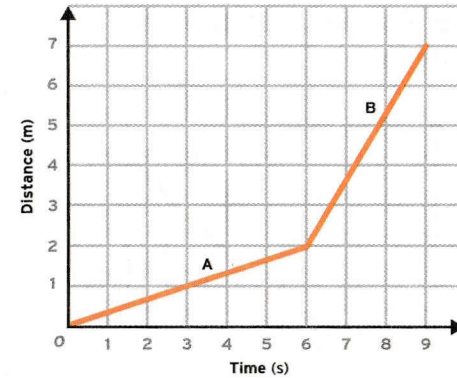
Part A starts at _____ meters and ends at _____ meters.

The truck travels _____ meters in _____ seconds.

STEP 3 Describe the motion in part B.

The truck travels _____ meters in _____ seconds.

> Describe the motion in the story.



In part A, the bike travels _____ meters in _____ seconds.

In part B, the bike travels _____ meters in _____ seconds.

> What do the two parts of the graph tell you about the motion of the bike?

In part A, the bike _____

SCORE 0 1 2

0 = Incorrect or No Response
1 = Partial Response
2 = Complete and Accurate