

PRACTICE- SPEED DISTANCE TIME

1. A car travels 200 miles in 4 hours. Calculate its average speed.
2. A man runs 100 m in 12.5 seconds. Calculate his average speed.
3. A train travels 80 miles in 1 hour 15 minutes. Calculate its average speed.
4. A person walks 15 km in 2 hour 30 minutes. Calculate his average speed.
5. A car travels 10 miles in 20 minutes. Calculate its average speed.
6. A jet fighter travels at 900 mph. How far will the jet travel in 4 hours?
7. An athlete runs at a constant speed of 8 m/s. How long will it take the athlete to run 400 m?
8. A tennis ball travels at 40 m/s. How far will it travel in $1\frac{1}{2}$ seconds?
9. A car travels 15 miles in 45 minutes. Calculate its average speed.
10. A middle distance runner runs at an average speed of 6 m/s. How long will it take him to run 1500 m, give your answer in seconds. Convert your answer to minutes.

Answers

- | | |
|-----------|---------------------------------|
| 1. 50 mph | 6. 3600 miles |
| 2. 8 m/s | 7. 50 s |
| 3. 64 mph | 8. 60 m |
| 4. 6 km/h | 9. 20 mph |
| 5. 30 mph | 10. 250 s, 4 min 10s or 4.2 min |

HOW FAR CAN IT GO OR HOW LONG DOES THE TRIP TAKE USING WHOLE OR HALF HOURS

1.
 - a. Juan rides his horse with a constant speed of 16 km/h. How long will he take to travel a distance of 56 kilometres?
 - b. David roller skates with a constant speed of 12 km/h. How far can he travel in $\frac{1}{2}$ hour?
2.
 - a. David rides his bike with a constant speed of 8 km/h. How long will he take to travel a distance of 8 kilometres?
 - b. An airplane flies with a constant speed of 760 miles per hour. How far can it travel in $1\frac{1}{2}$ hours?
3.
 - a. Cindy roller skates with a constant speed of 18 km/h. How long will she take to travel a distance of 54 kilometres?
 - b. An airplane flies with a constant speed of 720 km/h. How far can it travel in $\frac{1}{2}$ hour?

Answer Key

- 1 a. He takes 3 hours 30 minutes or $3\frac{1}{2}$ hours to travel a distance of 56 kilometres.
- 1 b. He can travel 6 kilometres in $\frac{1}{2}$ hour.
- 2 a. He takes 1 hour to travel a distance of 8 kilometres.
- 2 b. It can travel 1140 miles in $1\frac{1}{2}$ hours.
- 3 a. She takes 3 hours to travel a distance of 54 kilometres.
- 3 b. It can travel 360 kilometres in $\frac{1}{2}$ hour.

PRACTICE- SPEED DISTANCE TIME

HOW FAR CAN IT GO, HOW LONG DOES THE TRIP TAKE, OR WHAT IS THE AVERAGE SPEED - USING WHOLE OR HALF HOURS

4.
 - a. A car drives 252 km in 3 hours. What is its average speed in kilometres per hour?
 - b. An airplane flies with a constant speed of 760 miles per hour. How long will it take to travel a distance of 1140 miles?
5.
 - c. Caleb rides his horse with a constant speed of 20 km/h. How long will he take to travel a distance of 80 kilometres?
 - d. An airplane flies with a constant speed of 960 km/h. How long will it take to travel a distance of 2880 kilometres?
6.
 - e. An airplane flies 640 km in 1 hour. What is its average speed in kilometres per hour?
 - f. A minibus drives with a constant speed of 84 km/h. How far can it travel in 4 hours?

Answer Key

- 4a. Its average speed is 84 kilometres per hour.
4 b. It takes 1 hour 30 minutes or $1\frac{1}{2}$ hours to travel a distance of 1140 miles.
5 a. He takes 4 hours to travel a distance of 80 kilometres.
5 b. It takes 3 hours to travel a distance of 2880 kilometres.
6 a. Its average speed is 640 kilometres per hour.
6 b. It can travel 336 kilometres in 4 hours.

HOW FAR CAN IT GO, HOW LONG DOES THE TRIP TAKE, OR WHAT IS THE AVERAGE SPEED - USING QUARTER HOURS

7.
 - a) An airplane flies 2700 miles in $3\frac{3}{4}$ hours. What is its average speed in miles per hour?
 - b) Pete rides his bike with a constant speed of 8 km/h. How far can he travel in 15 minutes?
8.
 - a. A minibus drives with a constant speed of 60 km/h. How far can it travel in $3\frac{1}{2}$ hours?
 - b. Noah rides his motorcycle with a constant speed of 112 km/h. How far can he travel in 4 hours 45 minutes?
9.
 - a. Bob roller skates with a constant speed of 8 km/h. How far can he travel in 45 minutes?
 - b. An airplane flies 560 miles in 1 hour. What is its average speed in miles per hour?

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Answer Key

- 7a. Its average speed is 720 miles per hour.
- 7 b. He can travel 2 kilometres in 15 minutes.
- 8 a. It can travel 210 kilometres in $3\frac{1}{2}$ hours.
- 8 b. He can travel 532 kilometres in 4 hours 45 minutes.
- 9 a. He can travel 6 kilometres in 45 minutes.
- 9 b. Its average speed is 560 miles per hour.

HOW FAR CAN IT GO, HOW LONG DOES THE TRIP TAKE, OR WHAT IS THE AVERAGE SPEED - TIME TO THE 5-MINUTE INTERVALS

- 10.
 - a. Pete rides his horse 41 km in $3\frac{5}{12}$ hours. What is his average speed in kilometres per hour?
 - b. Grace rides her bike 60 km in 3 hours 20 minutes. What is her average speed in kilometres per hour?
- 11.
 - a. An airplane flies 1700 km in 2 hours 50 minutes. What is its average speed in kilometres per hour?
 - b. Bob rides his motorcycle 125 miles in 2 hours. What is his average speed in miles per hour?
- 12.
 - a. Nancy drives her car with a constant speed of 96 km/h. How far can she travel in 3 hours 15 minutes?
 - b. David roller skates 30 km in 1 hour 40 minutes. What is his average speed in kilometres per hour?

Answer Key

- 10 a. His average speed is 12 kilometres per hour.
- 10 b. Her average speed is 18 kilometres per hour.
- 11 a. Its average speed is 600 kilometres per hour.
- 11 b. His average speed is 60 miles per hour.
- 12 a. She can travel 312 kilometres in 3 hours 15 minutes.
- 12 b. His average speed is 18 kilometres per hour.

PROBLEMS INVOLVING A CONVERSION OF MINUTES TO HOURS

- 13.
 - a. An airplane flies 3515 miles in 285 minutes. What is its average speed in miles per hour?
 - b. An airplane flies 150 miles in 15 minutes. What is its average speed in miles per hour?
- 14.
 - a. An airplane flies 1050 km in 105 minutes. What is its average speed in kilometres per hour?
 - b. Sarah rides her horse 15 km in 75 minutes. What is her average speed in kilometres per hour?
- 15.
 - a. Emily drives her car with a constant speed of 44 miles per hour. How far can she travel in 225 minutes?
 - b. David rides his motorcycle 119 miles in 105 minutes. What is his average speed in miles per hour?

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Answer Key

13 a. av speed= 740 miles per hour.

13 b. av speed= 600 miles per hour.

14 a. av speed= 600 kilometres per hour.

14 b. av speed= 12 kilometres per hour.

15 a. She can travel 165 miles in 225 minutes.

15 b. av speed= 68 miles per hour.

TIME IS GIVEN TO THE $\frac{1}{4}$ OF AN HOUR

16.

a. Emily roller skates 6 km in 30 minutes. What is her average speed in kilometres per hour?

b. An airplane flies 825 miles in 1 hour 15 minutes. What is its average speed in miles per hour?

17.

a. Cindy rides her bike 26 km in $3\frac{1}{4}$ hours. What is her average speed in kilometres per hour?

b. Grace rides her bike 60 miles in $3\frac{3}{4}$ hours. What is her average speed in miles per hour?

18.

a. An airplane flies 420 km in $\frac{1}{2}$ hour. What is its average speed in kilometres per hour?

b. A train travels 78 miles in 1 hour 30 minutes. What is its average speed in miles per hour?

Answer Key

16 a. av speed= 12 kilometres per hour.

16 b. av speed= 660 miles per hour.

17 a. av speed= 8 kilometres per hour.

17 b. av speed= 16 miles per hour.

18 a. av speed= 840 kilometres per hour.

18 b. av speed= 52 miles per hour.

http://www.homeschoolmath.net/worksheets/speed_time_distance.php

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