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 1½ 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
      2. 8 m/s
      3. 64 mph
      4. 6 km/h
      5. 30 mph
      6. 3600 miles
      7. 50 s
      8. 60 m
      9. 20 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. 1. Juan rides his horse with a constant speed of 16 km/h. How long will he take to travel a distance of 56 kilometres?
   2. David roller skates with a constant speed of 12 km/h. How far can he travel in ½ hour?
2. 1. David rides his bike with a constant speed of 8 km/h. How long will he take to travel a distance of 8 kilometres?
   2. An airplane flies with a constant speed of 760 miles per hour. How far can it travel in 1 ½ hours?
3. 1. Cindy roller skates with a constant speed of 18 km/h. How long will she take to travel a distance of 54 kilometres?
   2. An airplane flies with a constant speed of 720 km/h. How far can it travel in ½ hour?

Answer Key

1 a. He takes 3 hours 30 minutes or 3 ½ hours to travel a distance of 56 kilometres.

1 b. He can travel 6 kilometres in ½ hour.

2 a. He takes 1 hour to travel a distance of 8 kilometres.

2 b. It can travel 1140 miles in 1 ½ hours.

3 a. She takes 3 hours to travel a distance of 54 kilometres.

1. b. It can travel 360 kilometres in ½ hour.

# How far can it go, how long does the trip take, or what is the average speed - using whole or half hours

1. 1. A car drives 252 km in 3 hours. What is its average speed in kilometres per hour?
   2. An airplane flies with a constant speed of 760 miles per hour. How long will it take to travel a distance of 1140 miles?
2. 1. Caleb rides his horse with a constant speed of 20 km/h. How long will he take to travel a distance of 80 kilometres?
   2. An airplane flies with a constant speed of 960 km/h. How long will it take to travel a distance of 2880 kilometres?
   3. An airplane flies 640 km in 1 hour. What is its average speed in kilometres per hour?
   4. 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 1½ 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

1. 1. An airplane flies 2700 miles in 3¾ hours. What is its average speed in miles per hour?
   2. Pete rides his bike with a constant speed of 8 km/h. How far can he travel in 15 minutes?
2. 1. A minibus drives with a constant speed of 60 km/h. How far can it travel in 3 1/2 hours?
   2. Noah rides his motorcycle with a constant speed of 112 km/h. How far can he travel in 4 hours 45 minutes?
3. 1. Bob roller skates with a constant speed of 8 km/h. How far can he travel in 45 minutes?
   2. An airplane flies 560 miles in 1 hour. What is its average speed in miles per hour?

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 3½ 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

1. 1. Pete rides his horse 41 km in 3 5/12 hours. What is his average speed in kilometres per hour?
   2. Grace rides her bike 60 km in 3 hours 20 minutes. What is her average speed in kilometres per hour?
2. 1. An airplane flies 1700 km in 2 hours 50 minutes. What is its average speed in kilometres per hour?
   2. Bob rides his motorcycle 125 miles in 2 hours. What is his average speed in miles per hour?
3. 1. Nancy drives her car with a constant speed of 96 km/h. How far can she travel in 3 hours 15 minutes?
   2. 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

* 1. An airplane flies 3515 miles in 285 minutes. What is its average speed in miles per hour?
  2. An airplane flies 150 miles in 15 minutes. What is its average speed in miles per hour?

1. 1. An airplane flies 1050 km in 105 minutes. What is its average speed in kilometres per hour?
   2. Sarah rides her horse 15 km in 75 minutes. What is her average speed in kilometres per hour?
   3. Emily drives her car with a constant speed of 44 miles per hour. How far can she travel in 225 minutes?
   4. David rides his motorcycle 119 miles in 105 minutes. What is his average speed in miles per hour?

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 ¼ of an hour

* 1. Emily roller skates 6 km in 30 minutes. What is her average speed in kilometres per hour?
  2. An airplane flies 825 miles in 1 hour 15 minutes. What is its average speed in miles per hour?

1. 1. Cindy rides her bike 26 km in 3 ¼ hours. What is her average speed in kilometres per hour?
   2. Grace rides her bike 60 miles in 3 ¾ hours. What is her average speed in miles per hour?
2. 1. An airplane flies 420 km in ½ hour. What is its average speed in kilometres per hour?
   2. 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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