



# Outcome 2 - Calculating Distance

## Bronze example


Examples... 

Distance = Speed × Time


How far did a boy walk in 2 hours at an average speed of 7 km/hr? 

Distance =  $7 \times 2 = 14$  kilometres

## Silver example


Examples... 

Distance = Speed × Time

How far did a car drive in 8 hours at an average speed of 40 km/hr? 


Distance =  $40 \times 8 = 320$  kilometres

## Gold example

Examples... 

30 mins = 0.5 hr  
15 mins = 0.25 hr  
45 mins = 0.75 hr











Distance = Speed × Time

How far did a bus drive in 2 hours 15 mins at an average speed of 30 m.p.h.? 

Distance =  $30 \times 2.25 = 67.5$  miles











## Bronze Questions

Calculate the following distances...

- |  |  |
|--|--|
|  S = 8 m.p.h.<br>T = 4 hours D = ?    |  S = 5 km/hr<br>T = 3 hours D = ?     |
|  S = 10 m/sec<br>T = 4 seconds D = ? |  S = 9 km/hr<br>T = 5 hours D = ?    |
|  S = 3 m.p.h.<br>T = 3 hours D = ?  |  S = 11 m.p.h.<br>T = 6 hours D = ? |
|  S = 8 m/sec<br>T = 6 seconds D = ? |  S = 7 m.p.h.<br>T = 3 hours D = ?  |
|  S = 12 m.p.h.<br>T = 9 hours D = ? |  S = 12 km/hr<br>T = 10 hours D = ? |











## Silver Questions

Calculate the following distances...

- |   |   |
|---|---|
|  S = 30 m.p.h.<br>T = 9 hours D = ?      |  S = 50 km/hr<br>T = 7 hours D = ?       |
|  S = 60 m/sec<br>T = 20 seconds D = ?   |  S = 90 km/hr<br>T = 10 hours D = ?     |
|  S = 800 m.p.h.<br>T = 3 hours D = ?   |  S = 700 m.p.h.<br>T = 9 hours D = ?   |
|  S = 400 m/sec<br>T = 70 seconds D = ? |  S = 300 m/sec<br>T = 60 seconds D = ? |
|  S = 9000 m.p.h.<br>T = 4 hours D = ?  |  S = 5000 km/hr<br>T = 80 hours D = ?  |

## Gold Questions

Calculate the following distances...

- |   |   |
|---|---|
|  S = 60 m.p.h.<br>T = 2 hrs 30 mins D = ?  |  S = 30 km/hr<br>T = 4 hrs 15 mins D = ?   |
|  S = 240 m.p.h.<br>T = 5 hrs 45 mins D = ? |  S = 360 km/hr<br>T = 6 hrs 30 mins D = ?  |
|  S = 80 m.p.h.<br>T = 1 hr 30 mins D = ?   |  S = 660 m.p.h.<br>T = 8 hrs 45 mins D = ? |
|  S = 880 m.p.h.<br>T = 3 hrs 15 mins D = ? |  S = 140 m.p.h.<br>T = 7 hrs 30 mins D = ? |
|  S = 40 m.p.h.<br>T = 2 hrs 45 mins D = ?  |  S = 65 km/hr<br>T = 7 hrs 15 mins D = ?   |



## Bronze Answers

- |              |                    |
|--------------|--------------------|
| 1. 32 miles  | 2. 15 kilometres   |
| 3. 40 metres | 4. 45 kilometres   |
| 5. 9 miles   | 6. 66 miles        |
| 7. 48 metres | 8. 21 miles        |
| 9. 108 miles | 10. 120 kilometres |

## Silver Answers

- |                  |                        |
|------------------|------------------------|
| 1. 270 miles     | 2. 350 kilometres      |
| 3. 1200 metres   | 4. 900 kilometres      |
| 5. 2400 miles    | 6. 6300 miles          |
| 7. 28 000 metres | 8. 18 000 metres       |
| 9. 36 000 miles  | 10. 400 000 kilometres |

## Gold Answers

- |               |                       |
|---------------|-----------------------|
| 1. 150 miles  | 2. 127.5 kilometres   |
| 3. 1380 miles | 4. 2340 kilometres    |
| 5. 120 miles  | 6. 5775 miles         |
| 7. 2860 miles | 8. 1050 miles         |
| 9. 110 miles  | 10. 471.25 kilometres |