

UNIT 18 Speed, Distance and Time

Mental Tests

M 18.1 Standard Route *(no calculator)*

1. How many seconds are there in 2 minutes? (120)
 2. A car travels at 60 mph. How far would it travel in 3 hours? (180 miles)
 3. Emma walks at a speed of 2 m/s. How long would it take her to walk 30 m ? (15 seconds)
 4. How many seconds are there in $1\frac{1}{2}$ minutes? (90)
 5. Stephen drives 60 miles in 2 hours. What is his average speed in mph? (30 mph)
 6. How far would you travel, driving at 50 mph for 5 hours? (250 miles)
 7. How far would you travel, driving at 70 mph for 2 hours? (140 miles)
 8. How many minutes are there in 3 hours? (180)
 9. How many minutes are there in $1\frac{1}{4}$ hours? (75)
 10. How many minutes are there in $2\frac{1}{2}$ hours? (150)
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M 18.2 Academic Route *(no calculator)*

1. How many seconds are there in $3\frac{1}{2}$ minutes? (210)
 2. A car travels at 42 mph. How far would it travel in $2\frac{1}{2}$ hours? (105 miles)
 3. Emma walks at a speed of 2 m/s. How long would it take her to walk 75 m ? ($37\frac{1}{2}$ seconds)
 4. Julie drives at 40 mph. How long would it take her to travel 200 miles? (5 hours)
 5. Alan drives 120 miles in 3 hours. What is his average speed in mph? (40 mph)
 6. How far would you travel, driving at 48 mph for $1\frac{1}{2}$ hours? (72 miles)
 7. How far would you travel, driving at 59 mph for 4 hours? (236 miles)
 8. How many minutes are there in $1\frac{1}{3}$ hours? (80)
 9. If you drive 75 miles in $1\frac{1}{2}$ hours, what is your average speed in mph? (50 mph)
 10. A car travels 126 miles in 3 hours. What is its average speed in mph? (42 mph)
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M 18.3 Express Route *(no calculator)*

1. How many seconds are there in $1\frac{5}{12}$ minutes? (85)
2. A car travels at 47 mph. How far would it travel in $2\frac{1}{2}$ hours? (117.5 miles)
3. Lorna walks at a speed of 1.5 m/s. How long would it take her to walk 75 m ? (50 seconds)
4. Jane drives at 42 mph. How long would it take her to travel 105 miles? ($2\frac{1}{2}$ hours)
5. Nigel drives 180 miles in $2\frac{1}{2}$ hours. What is his average speed in mph? (72 mph)
6. How far would you travel, driving at 48 mph for $2\frac{3}{4}$ hours? (132 miles)
7. How far would you travel, driving at 63 mph for 1 hour and 40 minutes? (105 miles)
8. How many minutes are there in $4\frac{1}{5}$ hours? (252)
9. If you travel 70 miles in 2 hours and 20 minutes, what is your average speed in mph? (30 mph)
10. A car travels 468 miles in 9 hours. What is its average speed in mph? (52 mph)