**\*ANSWER KEY \* SPEED, DISTANT, TIME PRACTICE PROBLEMS**

1. A train travels at a speed of 30 miles per hour and travels a distance of 240 miles. How long did it take the train to complete its journey?

T= D/S

T= 240 mi/ 30 mph

T= 8 hours

2. A cyclist travels 25 kilometers in 4 hours. What is the cyclist speed?

S= D/T

S= 25 km/4h

S= 6.25 km/h

3. How long does it take to drive a distance of 260 miles at a speed of 65 miles per hour?

T= D/S

T= 260 mi/ 65 mph

T= 4 hours

4. If you shout into the Grand Canyon, your voice travels at the speed of sound, at 340 meters/second. If it takes 5 seconds to hear your echo, how far did sound travel?

D= ST

D= 340 m/s (5s)

D= 1,700 meters

5. How much time will it take a spider to travel 15 meters across the floor if it is traveling at 0.05 meters/second?

T= D/S

T= 15 m/0.5 m/s

T= 300 s

6. The distance between two cities is 144 kilometers. It takes 3 hours for a car to travel between the two cities. What is the average speed of the car?

S= D/T

S= 144 km/3 h

S= 48 km/h

7. At 8:14 am, a football player was standing at the 25 meter mark on the field. He was training and had to move a 400 pound object from one distance to another. At 8:39 am, he was now at 125 meter mark on the filed. Show your work!

A. How far did he move?

Distance= 125 meters- 25 meters= 100 meters

B. How long did it take for him to move to the 125 meter mark?

Time= 8:39 - 8:14 = 25 minutes

C. How fast did he move?

S= D/T

S= 100 m/25 min

S= 4 m/min

8. It took Jenny 3.5 hours to drive from her home to Huntington Beach moving at a speed of 60.5 kilometers per hour. What distance did she travel from her house to Huntington Beach? Show your work step by step and explain each step.

|  |  |
| --- | --- |
| Show the math work step by step. | Explain your steps using complete sentences. |
| Step 1 (Formula):Distance= Speed (Time)Step 2 (Plug in Numbers):D= (60.5 km/h) (3.5 h)Step 3 (Solve):D= 211.75 kilometers | Step 1:The problem gives you the speed and time, so it is asking for distance. The formula for distance is speed multiplied by time.Step 2:The speed given in the problem is 60.5 kilometers per hour and the time was 3.5 hours. Step 3:When you multiply the speed and time, the distance is 211.75 kilometers.  |