**Speed, Distance, Time Worksheet. Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Define Motion:**

**Speed=**

**Example:**

**If you travel 100 km in 2 hours, what is your speed?**

 **1. A girl cycles for 3hrs at a speed of 40 km/h. What distance did she travel?**

 **2. A train travels at a speed of 30mph and travel a distance of 240 miles. How**

 **long did it take the train to complete its journey?**

 **3. A car travels a distance of 540km in 6 hours. What speed did it travel at?**

 **4. John is a runner. He runs the 100m sprint in 10.6 sec. What speed did he travel at? (in m/s)**

 **5. A cyclist travels 20km in 4hrs. What speed did the cyclist cycle at?**

**6. The distance between two cities is 144km, it takes me 3hours to travel between these cities. What speed did I travel at?**

 **7. A coach travels from the station to the beach, a distance of 576km away in 6hrs. The coach is only allowed to travel at a maximum speed of 90km/h. Did the coach break the speed limit?**

**8. Lauren walks 100m in half a minute. What must her speed have been to travel this distance?**

**9. A mouse runs a distance of 2 meters in 15 seconds. What is it’s speed?**

 **11. Jim travelled at a speed of 18km/h for 2 hours. What was the distance covered?**

**13. A whale swims at a constant speed of 8m/s for 17s. What distance did it travel?**

 **14. Callum writes down his jog times for each day.**

 **Mon – 15min Tue – 10min Wed – 12min Thu - 5min Fri – No jog.**

 **He jogs at a constant speed of 9km/h. Work out the distance he jogs each day. On which day did he jog the furthest?**

 **15. How long does it take to drive a distance of 260 miles at a speed of 65mph?**

**16. How long does it take to travel a distance of 672km at a speed of 96km/h?**

**17. Carlisle is a distance of 135miles away from Airdrie. If I travelled at a constant speed of 45mph. How long would it take me to get there?**

**18. A beetle travels at a speed of 9cm/s., it travels a distance of 108cm before it is caught in a jar. How long did the beetle run for?**

 **19. Neil travelled 36km at a speed of 8km/h. Grant travelled 48km at a speed of 10km/h**

**a) Whose journey was quickest?**

**b) By how many mins?**

 **21. Mr Dunn drives 64.8km from work at a speed of 48km/h. Mrs Dunn drives**

 **81x2km from work at a speed of 58km/h. They both leave work at the same time.**

**a) Who arrives home first?**

**b) How many minutes later is it before the second person gets home?**

 **22. The earth takes one year to go round the sun.**

 **The distance travelled is 584 million miles if there are 365 days in a year, what speed**

**does the earth travel at in miles per day?**

 **Can you work out the speed of the earth in miles per hour?**