SPACE Maths Word Problems – Lower Key Stage 2 – Year 3

1. A spaceship travels 245 km on its first day and 138 km on its second day. How many kilometres did the spaceship travel in total?

2. An astronaut had 500 grams of space food at the start of the day. By lunchtime, he had eaten 275 grams. How much space food does he have left?

3. There are 4 astronauts on a mission. Each astronaut drinks 3 cups of water per day. How many cups of water do they drink in total each day?

4. A spaceship has 24 seats. If each row has 6 seats, how many rows of seats are there?

5. A satellite's battery is ⅓ full. If the full battery capacity is 90 hours, how many hours of battery life are left?

6. A space rover is 3 metres long, and a smaller rover is 1 metre shorter. How long is the smaller rover?

7. It takes 5 minutes for a rocket to launch and 10 minutes to reach space. How long does it take in total for the rocket to launch and reach space?

8. A space station has a rectangular solar panel with sides of 5 metres and 3 metres. What is the shape of the solar panel?

9. An astronaut buys 3 space toys. Each toy costs £4. How much does the astronaut spend in total?

10. A square space garden on a space station has sides that are 6 metres long. What is the perimeter of the space garden?

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MARK SCHEME

1. A spaceship travels 245 km on its first day and 138 km on its second day. How many kilometres did the spaceship travel in total?
   245 + 138 = 383km.

2. An astronaut had 500 grams of space food at the start of the day. By lunchtime, he had eaten 275 grams. How much space food does he have left?
   500 – 275 = 225 grams left.

3. There are 4 astronauts on a mission. Each astronaut drinks 3 cups of water per day. How many cups of water do they drink in total each day?
   4 × 3 = 12 cups of water.

4. A spaceship has 24 seats. If each row has 6 seats, how many rows of seats are there?
   24 ÷ 6 = 4 rows.

5. A satellite's battery is ⅓ full. If the full battery capacity is 90 hours, how many hours of battery life are left?
   1/3 × 90 = 30 hours of battery life left.

6. A space rover is 3 metres long, and a smaller rover is 1 metre shorter. How long is the smaller rover?
   3 – 1 = 2 metres.

7. It takes 5 minutes for a rocket to launch and 10 minutes to reach space. How long does it take in total for the rocket to launch and reach space?
   5 + 10 = 15 minutes.

8. A space station has a rectangular solar panel with sides of 5 metres and 3 metres. What is the shape of the solar panel?
   The shape is a **rectangle**.

9. An astronaut buys 3 space toys. Each toy costs £4. How much does the astronaut spend in total?
   3 × 4 = 12 pounds.

10. A square space garden on a space station has sides that are 6 metres long. What is the perimeter of the space garden?
    Perimeter = 4 × 6 = 24 metres.