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(Science Focus) Maths Word Problems – UKS2 – Year 5

- 1. A citywide recycling programme collected 12,450 kilograms of waste in the first month and 18,325 kilograms in the second month. How much waste was collected in total over the two months?
- 2. A renewable energy project was expected to generate 25,640 kilowatts of power, but it only managed to produce 19,875 kilowatts. How many fewer kilowatts were produced than expected?
- 3. A wind farm generates 425 kilowatts of electricity per day. How much electricity does it generate in 28 days?
- 4. A beach cleanup group collected 9,680 kilograms of rubbish over 16 days. How many kilograms of rubbish were collected on average each day?
- 5. A wildlife park covers 2,500 hectares of land, and ½ of the land is reserved for conservation. How many hectares are set aside for conservation?
- 6. A school reduced its plastic waste by 30%. If they originally produced 4,500 kilograms of plastic waste, how many kilograms of waste were saved?
- 7. A solar panel has a length of 15 metres and a width of 10 metres. What is the area of the solar panel?
- 8. A rectangular garden designed for biodiversity measures 30 metres in length and 18 metres in width. What is the perimeter of the garden?
- 9. A team of volunteers plants 55 trees every hour. If they work for 6 hours, how many trees will they plant? If another team works for 4 hours and plants 65 trees per hour, how many trees will both teams plant together?
- 10. For every 4 recycling bins of paper, there are 5 bins of plastic. If there are 20 bins of paper, how many bins of plastic are there?

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MARK SCHEME

- 1. 12,450 + 18,325 = 30,775 kilograms of waste.
- 2. 25,640 19,875 = 5,765 kilowatts fewer.
- 3. $425 \times 28 = 11,900$ kilowatts of electricity.
- 4. $9,680 \div 16 = 605$ kilograms of rubbish per day.
- 5. $2/5 \times 2,500 = 1,000$ hectares reserved for conservation.
- 6. $30\% \times 4,500 = 0.30 \times 4,500 = 1,350$ kilograms of waste saved.
- 7. Area = $15 \times 10 = 150$ m².
- 8. Perimeter = $2 \times (30+18) = 2 \times 48 = 96$ metres.
- 9. First team:

 $55 \times 6 = 330$ trees.

Second team:

 $65 \times 4 = 260$ trees.

Total trees planted:

330 + 260 = 590 trees.

10. Total bins in ratio 4 + 5 = 9 parts.

If there are 20 bins of paper, each part = $20 \div 4 = 5$.

Plastic bins: $5 \times 5 = 25$ bins of plastic.