

(Science Focus) Maths Word Problems – LKS2 – Year 4

1. A city collected 3,245 kilograms of plastic waste in January and 4,730 kilograms in February. How much plastic waste was collected in total over the two months?
2. A project aimed to reduce water usage by 8,120 litres. So far, the project has reduced water usage by 5,275 litres. How many more litres of water need to be reduced to meet the goal?
3. A volunteer group picks up 36 kilograms of rubbish each day. How much rubbish will they pick up in 7 days?
4. A solar farm generates 125 kilowatts of energy each day. How much energy will it generate in 8 days?
5. A park covers 600 hectares of land. If $\frac{1}{3}$ of the park is used for planting trees, how many hectares are used for trees?
6. A factory recycles 45 bottles each day. How many bottles will it recycle in 100 days?
7. A solar panel is 8 metres long and 5 metres wide. What is the area of the solar panel?
8. A rectangular garden measures 24 metres in length and 15 metres in width. What is the perimeter of the garden?
9. A team of volunteers plants 45 trees every 3 hours. If they work for 9 hours, how many trees will they plant? If another team plants 30 trees every 3 hours and works for 9 hours, how many trees will both teams plant together?
10. A school spends £55 each month on environmental projects. How much money will they spend in 6 months?

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MARK SCHEME

1. $3,245 + 4,730 = 7,975$ kilograms of plastic waste.
2. $8,120 - 5,275 = 2,845$ litres of water.
3. $36 \times 7 = 252$ kilograms of rubbish.
4. $125 \times 8 = 1,000$ kilowatts of energy.
5. $1/3 \times 600 = 200$ hectares for trees.
6. $45 \times 100 = 4,500$ bottles.
7. $8 \times 5 = 40$ square metres.
8. $2 \times (24+15) = 2 \times 39 = 78$ metres.
9. First team: $45 \times 3 = 135$ trees.
Second team: $30 \times 3 = 90$ trees.
Both teams together: $135 + 90 = 225$ trees.
10. $£55 \times 6 = £330$.