Our School—A Happy Place

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Fruit and vegetable peels go into the bin for:
   (a) glass **(b)** metal **(c)** dry waste **(d)** wet waste

2. Which of these goes into the WET waste bin?
   (a) leftover rice **(b)** tin can
   (c) used pen refill **(d)** old notebook

3. Which of these goes into the DRY waste bin?
   (a) egg shells **(b)** fallen leaves
   (c) used pen refill **(d)** orange peel

4. Which of these is a SAFE thing to do on the road?
   (a) cross at a bend in the road **(b)** get off a moving bus
   (c) run across the road between cars **(d)** cross at the zebra crossing

5. Which of these is NOT safe on the road?
   (a) lean out of a bus window
   (b) wait for the bus to stop before getting on
   (c) walk on the footpath
   (d) look right, left and right again before crossing

6. Two bottles of water both start at 30 °C. After an hour, the one in the sun is 38 °C and the one under a tree is 31 °C. How many degrees warmer is the bottle in the sun?
   (a) 9 °C **(b)** 8 °C **(c)** 7 °C **(d)** 1 °C

7. A school tap drips one glass of water every 6 minutes, day and night. How many glasses are wasted in 4 days?
   (a) 960 glasses **(b)** 984 glasses **(c)** 576 glasses **(d)** 480 glasses

8. Each of 4 classes in a school throws away 4 kg of wet waste a day. How many kilograms of wet waste can go to the compost pit each day?
   (a) 16 kg **(b)** 32 kg **(c)** 8 kg **(d)** 20 kg

Section B — Short answer — 8 × 2 = 16 marks

9. Name two kinds of wet waste and two kinds of dry waste.

10. Write "wet" or "dry" for the bin each goes into: (a) leftover rice (b) tin can

11. Write "safe" or "unsafe": (a) to get off a moving bus (b) to cross at the zebra crossing

12. Which stays cooler in the summer sun, a dark blue wall or a white wall? Why?

13. In a survey, 14 children walk to school, 12 cycle, 10 come by bus and 9 by car. How many children were asked? How many more walk than come by car?

14. Each of the 43 children in a class saves 5 sheets of paper a week by writing on both sides. How many sheets does the class save in 4 weeks?

15. For a fire drill, a class lines up at the assembly point in 7 rows of 8 children each. How many children are in the class?

16. A school plants 18 saplings, and each needs 2 litres of water a day. How much water do they need in a week?

Section C — Word problems — 4 × 4 = 16 marks

17. Describe how waste in a school can be managed. Give four steps.

18. A school has 10 classes. Each class makes 3 kg of wet waste each school day, and there are 22 school days in a month. (a) How much wet waste is made in a month? (b) Suggest what the school can do with it, and why.

19. A tap in the school washroom leaks one glass (300 mL) every 2 minutes. (a) How many glasses are wasted in a day? (b) How many litres is that? (1 L = 1000 mL) (c) Write two ways to stop such waste.

20. Sort these into wet and dry waste, and say what happens to each kind: glass bottle, leftover rice, tin can, empty juice box, orange peel, old newspaper.

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Answer key

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Q	Answer	Working
1	**(d) wet waste**	usually green
2	**(a) leftover rice**	—
3	**(c) used pen refill**	—
4	**(d) cross at the zebra crossing**	—
5	**(a) lean out of a bus window**	—
6	**(c) 7 °C**	38 − 31 = 7
7	**(a) 960 glasses**	60 ÷ 6 × 24 × 4 = 960
8	**(a) 16 kg**	4 × 4 = 16
9	**Wet: fruit peels, leftover food; dry: paper, plastic wrappers.**	—
10	**(a) wet (b) dry**	—
11	**(a) unsafe (b) safe**	—
12	**The white one: white reflects most of the sunlight, while black takes in heat.**	—
13	**45 children; 5 more walk**	14 + 12 + 10 + 9 = 45; 14 − 9
14	**860 sheets**	43 × 5 × 4 = 860
15	**56 children**	7 × 8 = 56
16	**252 L**	18 × 2 × 7 = 252
17	**Keep separate bins for wet and dry waste; teach everyone to sort; compost the wet waste to make manure for the garden; send paper and plastic for recycling; reduce waste by using steel bottles and lunch boxes.**	—
18	**(a) 660 kg (b) Put it in a compost pit: it turns into manure for the school garden instead of going to a landfill.**	10 × 3 × 22 = 660
19	**(a) 720 glasses (b) 216 L (c) Repair the tap; report leaks; put up "close the tap" signs.**	60 ÷ 2 × 24 = 720; 720 × 300 ÷ 1000 = 216
20	**Wet: leftover rice, orange peel. Dry: glass bottle, tin can, empty juice box, old newspaper. Wet waste is composted into manure; dry waste is sorted and recycled.**	—

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