This World of Things

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. Things that you can see through clearly are called:
(a) translucent **(b)** shiny **(c)** opaque **(d)** transparent

2. A windowpane is usually made of:
(a) glass **(b)** clay **(c)** rubber **(d)** wood

3. Cotton cloth comes from:
(a) wet soil **(b)** silkworms
(c) trees **(d)** the cotton plant

4. Through which of these can you see CLEARLY?
(a) a steel plate **(b)** a paper lamp shade
(c) a clear plastic bottle **(d)** a cardboard box

5. Through which of these can you NOT see at all?
(a) a clear plastic bottle **(b)** butter paper
(c) clean water in a glass **(d)** a brick wall

6. Which of these is a GAS?
(a) a brick **(b)** cooking oil
(c) the air in a balloon **(d)** water

7. Which material is best for making an umbrella?
(a) wood **(b)** glass
(c) waterproof cloth **(d)** clay

8. A classroom has 6 windows, and each window has 6 glass panes. How many glass panes are there?
(a) 42 panes **(b)** 12 panes **(c)** 36 panes **(d)** 30 panes

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

9. Name three materials in your classroom and one thing made of each.

10. What is each usually made of? (a) a cricket bat (b) a brick

11. Is it a solid, a liquid or a gas? (a) the air in a balloon (b) water

12. Write "natural" or "artificial": (a) a chair (b) a cloud

13. Write "transparent", "translucent" or "opaque": (a) a wooden door (b) a paper lamp shade

14. Each door hinge needs 6 nails. How many nails are needed for 9 hinges?

15. A classroom has 12 tables and 26 chairs, all made of wood. How many wooden things is that?

16. Khushi's box has 2 metal things, 5 plastic things and 4 wooden things. How many things are in the box?

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

17. Draw your classroom and label five things in it with what each is made of.

18. A classroom has 10 desks with 2 chairs at each desk, and 4 windows with 6 glass panes each. (a) How many chairs are there? (b) How many glass panes are there?

19. Sort these into solids, liquids and gases: a bottle, a brick, honey, smoke, cooking oil, the air in a balloon. How is a solid different from a liquid?

20. Why would each not work? (a) a wall made of water (b) a cooking pot made of plastic

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Answer key

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Q	Answer	Working
1	(d) transparent	—
2	(a) glass	—
3	(d) the cotton plant	—
4	(c) a clear plastic bottle	—
5	(d) a brick wall	—
6	(c) the air in a balloon	—
7	(c) waterproof cloth	—
8	(c) 36 panes	6 × 6 = 36
9	For example: wood (desk), metal (door hinge), glass (windowpane), plastic (switch).	—
10	(a) wood (b) clay	—
11	(a) gas (b) liquid	—
12	(a) artificial (b) natural	—
13	(a) opaque (b) translucent	—
14	54 nails	6 × 9 = 54
15	38 things	12 + 26 = 38
16	11 things	2 + 5 + 4 = 11
17	A drawing with five labelled things and their materials.	—
18	(a) 20 chairs (b) 24 panes	10 × 2 = 20; 4 × 6 = 24
19	Solids: a bottle, a brick. Liquids: honey, cooking oil. Gases: smoke, the air in a balloon. A solid keeps its shape; a liquid flows and takes the shape of its container.	—
20	(a) water is a liquid and cannot keep its shape (b) plastic melts on a hot stove	—

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