Working with Fractions

Standard difficulty · 20 questions · 40 marks · Time: 28 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. 9/11 × 12 equals:
(a) 3/44 **(b)** 9/11 **(c)** 12 9/11 **(d)** 9 9/11

2. 9/11 of 165 is:
(a) 135 **(b)** 15 **(c)** 174 **(d)** 156

3. To multiply two fractions, we multiply:
(a) the numerators and add the denominators
(b) crosswise
(c) the numerators together and the denominators together
(d) only the numerators

4. The reciprocal of 1 1/6 is:
(a) 6 **(b)** 1/7 **(c)** 6/7 **(d)** 1 1/6

5. Without working it out: 52 × 4/7 is
(a) zero **(b)** more than 52 **(c)** equal to 52 **(d)** less than 52

6. 4 ÷ 1/6 equals:
(a) 10 **(b)** 24 **(c)** 2/3 **(d)** 1/24

7. How many quarter-litre glasses can be filled from 3 litres?
(a) 7 **(b)** 4 **(c)** 12 **(d)** 3

8. 4/7 × 1/8 in lowest terms is:
(a) 1/14 **(b)** 39/56 **(c)** 4 4/7 **(d)** 5/56

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

9. Multiply, giving the answer in lowest terms: 10/11 × 7/10

10. Find 1 4/5 × 3 1/3.

11. Divide: 7/11 ÷ 4/9

12. How many bottles of 3/4 litre can be filled from 48 litres?

13. Find 5/9 of 5/6.

14. Cancel first, then multiply: 9/15 × 75/8

15. A rectangle is 2 1/2 m long and 2 8/9 m wide. Find its area.

16. Find the missing fraction: 3/5 × □ = 8/9

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

17. A recipe needs 1/3 cup of flour for one batch of rotis. How much flour is needed for 12 batches?

18. Meera walks 2 2/3 km in an hour. How far does Meera walk in 2 2/3 hours?

19. A ribbon 14 m long is cut into pieces of 2/3 m each. How many pieces are there?

20. A family earns Rs 34,560 a month. They spend 1/3 of it on rent and 1/2 of what is left on food. How much do they spend on rent, on food, and how much is left?

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Answer key

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Q	Answer	Working
1	**(d) 9 9/11**	9 × 12 = 108, over 11: 9 9/11
2	**(a) 135**	165 ÷ 11 × 9 = 135
3	**(c) the numerators together and the denominators together**	—
4	**(c) 6/7**	1 1/6 = 7/6; swap: 6/7
5	**(d) less than 52**	4/7 is less than 1
6	**(b) 24**	4 × 6 = 24
7	**(c) 12**	3 ÷ 1/4 = 12
8	**(a) 1/14**	(4 × 1) / (7 × 8) = 1/14
9	**7/11**	(10 × 7) / (11 × 10) = 7/11
10	**6**	9/5 × 10/3 = 6
11	**1 19/44**	7/11 × 9/4 = 1 19/44
12	**64**	48 ÷ 3/4 = 48 × 4/3 = 64
13	**25/54**	5/9 × 5/6 = 25/54
14	**5 5/8**	15 goes into 75: 9 × 5/8 = 5 5/8
15	**7 2/9 m^2**	5/2 × 26/9 = 7 2/9
16	**1 13/27**	□ = 8/9 ÷ 3/5 = 1 13/27
17	**4 cups**	12 × 1/3 = 4
18	**7 1/9 km**	8/3 × 8/3 = 7 1/9
19	**21 pieces**	14 ÷ 2/3 = 14/1 × 3/2 = 21
20	**rent Rs 11,520, food Rs 11,520, left Rs 11,520**	1/3 × 34560 = 11520; 1/2 × 23040 = 11520

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