Fractions

Standard difficulty · 20 questions · 40 marks · Time: 33 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. Which fraction is equivalent to 2/3?

(a) 12/3 **(b)** 8/9 **(c)** 2/18 **(d)** 12/18

2. 56/63 in its simplest form is:

(a) 56/9 **(b)** 9/8 **(c)** 8/9 **(d)** 9/10

3. Which is greater: 1/8 or 3/8?

(a) both are equal **(b)** cannot be compared
(c) 1/8 **(d)** 3/8

4. A fraction whose numerator is less than its denominator is called a:

(a) proper fraction **(b)** improper fraction
(c) mixed fraction **(d)** whole number

5. 22/4 as a mixed number is:

(a) 5 1/2 **(b)** 5 4/2 **(c)** 2 5/4 **(d)** 6 2/4

6. 5/12 + 6/12 = ?

(a) 12/12 **(b)** 11/24 **(c)** 30/12 **(d)** 11/12

7. What fraction of an hour is 10 minutes?

(a) 1/6 **(b)** 1/10 **(c)** 10/100 **(d)** 5/6

8. 2 5/8 as an improper fraction is:

(a) 16/5 **(b)** 7/8 **(c)** 21/8 **(d)** 18/8

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

9. Add: 4/7 + 1/8

10. Subtract: 5/8 − 2/9

11. Add: 4 5/6 + 2 3/5

12. Arrange in ascending order: 5/8, 1/9, 2/5

13. Write 20/9 as a mixed number.

14. Fill in the blank: 5/8 = ____/48

15. Subtract: 5 − 1/4

16. Reduce to lowest terms: 40/64

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

17. Ritu ate 4/7 of a cake and her brother ate 3/8 of it. What fraction of the cake did they eat together? What fraction is left?

18. A rope is 6 2/3 m long. Raju cuts off 1 2/3 m. How long is the remaining rope?

19. There are 20 students in a class. 2/5 of them are girls. How many girls and how many boys are there?

20. Asha has read 3/4 of her storybook. Vikram has read 4/7 of the same book. Who has read more, and by how much?

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Answer key

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Q	Answer	Working
1	**(d) 12/18**	multiply top and bottom by 6
2	**(c) 8/9**	divide top and bottom by 7
3	**(d) 3/8**	same denominator: the bigger numerator wins
4	**(a) proper fraction**	—
5	**(a) 5 1/2**	22 ÷ 4 = 5 remainder 2
6	**(d) 11/12**	add the numerators, keep the denominator
7	**(a) 1/6**	10/60 = 1/6
8	**(c) 21/8**	2 × 8 + 5 = 21
9	**39/56**	LCM of 7 and 8 is 56; 39/56
10	**29/72**	common denominator 72; 29/72
11	**7 13/30**	wholes 6, parts 5/6 + 3/5; total 7 13/30
12	**1/9, 2/5, 5/8**	5/8 ≈ 0.62; 1/9 ≈ 0.11; 2/5 ≈ 0.40
13	**2 2/9**	20 ÷ 9 = 2 remainder 2
14	**30**	8 × 6 = 48, so 5 × 6 = 30
15	**4 3/4**	5 = 20/4; 4 3/4
16	**5/8**	HCF is 8; 5/8
17	**eaten 53/56; left 3/56**	4/7 + 3/8 = 53/56; 1 − 53/56 = 3/56
18	**5 m**	6 2/3 − 1 2/3 = 5
19	**8 girls, 12 boys**	2/5 × 20 = 8; 20 − 8 = 12
20	**Asha, by 5/28 of the book**	3/4 > 4/7; difference 5/28

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