Fractions

Standard difficulty · 20 questions · 40 marks · Time: 53 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. 2/3 = ?/18

(a) 6 **(b)** 13 **(c)** 12 **(d)** 8

2. Which fraction is equal to 2/3?

(a) 4/7 **(b)** 4/5 **(c)** 4/6 **(d)** 5/6

3. Which is greater: 4/10 or 7/10?

(a) You cannot tell **(b)** 7/10
(c) 4/10 **(d)** They are equal

4. Which is smaller: 6/9 or 6/7?

(a) 6/9 **(b)** You cannot tell
(c) 6/7 **(d)** They are equal

5. Fractions that name the same amount are called:

(a) equivalent fractions **(b)** whole numbers
(c) mixed numbers **(d)** unit fractions

6. 7/2 as a mixed number is:

(a) 1 3/2 **(b)** 3 1/2 **(c)** 4 1/2 **(d)** 7 1/2

7. How many 1/12s make 1/3?

(a) 3 **(b)** 4 **(c)** 12 **(d)** 5

8. Which fraction is greater than 1?

(a) 4/9 **(b)** 1/4 **(c)** 7/12 **(d)** 9/7

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

9. Fill in the blank: 5/9 = 30/___

10. Is 13/15 more than or less than 1/2?

11. Write 5 7/8 as an improper fraction (with denominator 8).

12. Write 12 pieces of 1/5 as a fraction and as a mixed number.

13. Put > or < between 6/5 and 3/5.

14. Write three fractions equal to 2/7.

15. Each ribbon piece is 1/4 m long. How long are 21 of them in a line, as a mixed number?

16. Arrange in ascending order: 9/10, 8/10, 7/10.

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

17. A pizza is cut into 12 equal pieces. Joseph eats 1 piece and Susie eats 5. (a) What fraction did Joseph eat? (b) Who ate more? (c) What fraction is left?

18. Rohan has 7 pieces of ribbon, each 1/3 m long. (a) Write the total length as a fraction. (b) Write it as a mixed number. (c) Is it more than 2 m?

19. Fill in the blanks: 5/7 = ___/14 = ___/21 = 20/___ = 25/___

20. On a running track, Tara ran 4/6 of a round and Aman ran 5/6 of a round. (a) Who ran farther? (b) Did Tara run more than half a round? (c) Did Aman?

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Answer key

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Q	Answer	Working
1	**(c) 12**	3 × 6 = 18, so multiply the top by 6 too
2	**(c) 4/6**	multiply the top and bottom of 2/3 by 2
3	**(b) 7/10**	same denominator: compare the numerators
4	**(a) 6/9**	same numerator: the smaller denominator means bigger pieces
5	**(a) equivalent fractions**	—
6	**(b) 3 1/2**	7 ÷ 2 = 3 remainder 1
7	**(b) 4**	1/3 = 4/12
8	**(d) 9/7**	the numerator is bigger than the denominator
9	**54**	5 × 6 = 30, so 9 × 6
10	**More than 1/2**	half of 15 is 7 1/2
11	**47/8**	5 wholes = 40/8; add 7/8
12	**12/5 = 2 2/5**	12 ÷ 5 = 2 remainder 2
13	**6/5 > 3/5**	6/5 is more than 1 and 3/5 is less than 1
14	**4/14, 6/21, 8/28**	multiply the top and bottom by the same number (any three correct ones)
15	**5 1/4 m**	21/4 = 5 1/4
16	**7/10, 8/10, 9/10**	same denominator: order the numerators
17	**(a) 1/12; (b) Susie; (c) 6/12**	12 − 1 − 5 = 6 pieces left
18	**(a) 7/3 m; (b) 2 1/3 m; (c) Yes**	2 m = 6/3 m
19	**10, 15, 28, 35**	multiply the top and bottom by 2, 3, 4 and 5
20	**(a) Aman; (b) more than half; (c) more than half**	same denominator: the bigger numerator is the bigger fraction