Mathematics

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(Chapter – 7) (Fractions) (Practice Test 6)

(Class VI)

Time: 1 Hour 15 Minutes **M. M: 25**

General Instructions:

- This question paper contains four sections: A, B, C and D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 5 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

Section – A

1. Mixed fraction of $\frac{125}{8}$ is:

(A) $15\frac{7}{8}$ (B) $15\frac{5}{8}$ (C) $15\frac{3}{8}$ (D) none of these

2. The simplest form of $\frac{16}{72}$ is:

(A) $\frac{2}{9}$ (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) None of these

3. What are the fractions with the same denominator called?

(A) Unit fractions (B) Unlike fractions (C) Like fractions (D) Improper fractions

4. When we add $2\frac{4}{5}$ and $3\frac{1}{5}$ the sum is equivalent to:

(A) 6 (B) 3 (C) 2 (D) 4

5. Mixed fraction $3\frac{1}{4}$ as improper fraction is:

(A) $\frac{11}{4}$ (B) $\frac{13}{4}$ (C) $\frac{15}{4}$ (D) None of these

Section – B

6. Write each of the following fractions as divisions:

(i) 90/63 (ii) 1/5

7. Convert each of the following into a mixed fraction:

(i) 145/9 (ii) 128/5

8. Convert each of the following into an improper fraction:

(i) $7\frac{1}{4}$ (ii) $8\frac{5}{7}$

Section – C

9. Savita bought 2/5 m of ribbon and Kavita 3/4 m of ribbon. What was the total length of the ribbon they bought?

10. Ravish takes 11/15 minutes to walk across the school ground. Rahul takes 7/4 minutes to do the same. Who takes less time and by what fraction?

11. A piece of a wire 7/8 metres long broke into two pieces. One piece was 1/4 meter long. How long is the other piece?

Section – D

12. Shikha and Priya have bookshelves of the same size shikha's shelf is 5/6 full of book and Priya's shelf is 2/5 full. Whose bookshelf is fuller? By what fraction?

13. Ravish's house is 9/10 Km from his school. He walked some distance and then took a bus for 1/2 Km. How far did he walk?

Answers

Section – A

1. $15\frac{5}{8}$
2. $\frac{2}{9}$
3. Like fractions
4. 6
5. $\frac{13}{4}$

Section – B

6. (i) 90 ÷ 63
(ii) 1 ÷ 5
7. (i)$16\frac{1}{9}$
(ii)$25\frac{3}{5}$
8. i) 29/9
ii) 61/7

Section-C

9. Length of the ribbon bought by Savita = 2/5 metres
Length of the ribbon bought by Kavita = 3/4 metres
Total length of the ribbon bought by them: 23/20 meters

10. Time taken by ravish = 11/5 minute
Time taken by Rahul = 7/4 minute
(LCM of 4 and 5 is 20, so will we convert each fraction into an equivalent fraction with denominator 20).
On comparing we get, 44/20 > 35/20
Rahul takes less time,
44/20 – 35/20 = 9/20 minutes

11. Length of the wire = 7/8 metres
Length of one piece of wire = 1/4 metres
Let the length of the second piece of wire be x m.
Therefore, Length of the wire = length of one piece + length of the second piece
7/ 8 = 1/ 4 +x
x = 5/8
Therefore, the length of the second piece is 5/8 metres.

Section – D

12. Fraction of shikha's filled bookshelf = 5/6
Fraction of Priya's filled bookshelf = 2/5
Comparing 5/6 and 2/5, we get: LCM of 5 and 6 is 30, so will convert each fraction into an equivalent fraction with denominator 30.
25/30 > 12/30
Shikha's shelf is fuller. Therefore, 25/30 - 12/30 = 13/30

13. Total distance between the house and the school = 9/10 Km
Distance covered in the bus = 1/2 Km
Distance covered by walking + distance covered in the bus = total distance between the house and the school.
Distance covered by walking = total distance between the house and the school – Distance covered in the bus.
Distance covered by walking: 9/10 Km – 1/2 Km
LCM of 10 and 2 is 10, so we convert each fraction into an equivalent fraction with denominator 10
= 9/10 -5/10
= 2/ 5 km
(HCF of numerator and denominator is 2)