

Mathematics

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(Chapter - 7) (Fractions) (Practice Test 1)

(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

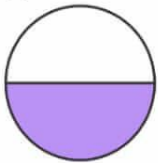
- $\frac{2}{5} + \frac{3}{10} + \frac{11}{20}$ is equal to:
(A) $\frac{25}{20}$ (B) $\frac{24}{20}$ (C) $\frac{28}{20}$ (D) $\frac{19}{20}$
- Which of these makes a whole?
(A) One half (B) Two halves (C) 3 halves (D) 5 halves
- Give a proper fraction whose numerator is 5 and denominator is 7.
(A) $\frac{7}{5}$ (B) $\frac{5}{7}$ (C) $\frac{3}{7}$ (D) None of these
- Mixed fraction $2\frac{3}{19}$ as improper fraction is:
(A) $\frac{40}{19}$ (B) $\frac{41}{19}$ (C) $\frac{42}{19}$ (D) none of these
- What is the simplified form of the product $\frac{12}{24}$ and $\frac{36}{72}$
(A) $\frac{16}{24}$ (B) $\frac{3}{5}$ (C) 4 (D) $\frac{1}{4}$

Section - B

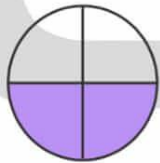
- What fraction of an hour is 20 minutes?
- Write the natural numbers from 2 to 12. What fraction of them are prime numbers?
- Write the natural numbers from 102 to 113. What fraction of them are prime numbers.

Section - C

- Check the following are equivalent or not?
(i)



1 out of 2 parts
is shaded



2 out of 4 parts
are shaded



3 out of 6 parts
are shaded



4 out of 8 parts
are shaded

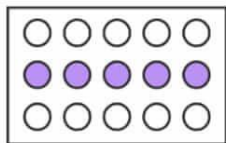
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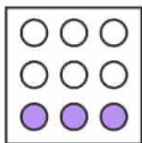
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(Class VI)

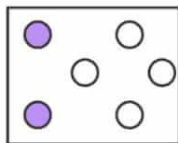
(ii)



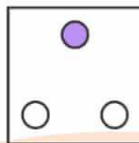
5 out of 15 parts
is shaded



3 out of 9 parts
are shaded



2 out of 6 parts
are shaded

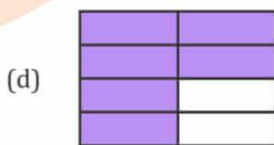
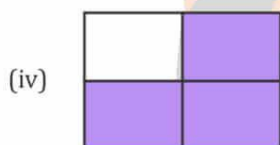
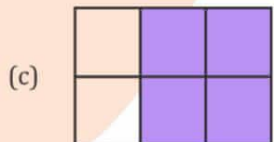
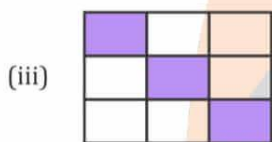
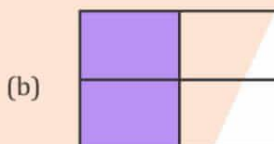
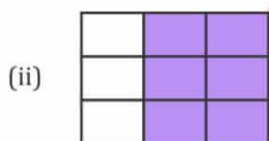
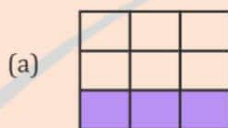


1 out of 3 parts
is shaded

10. Write the fractions and match fractions in column I with the equivalent fractions in column II.

Column I

Column II



11. Replace * in each of the following by the correct number:

(i) $2/7 = 6/*$

(ii) $5/8 = 10/*$

(iii) $4/5 = */20$

Section - D

12. Find the equivalent fraction of $3/5$, having:

(i) Numerator 9

(ii) Denominator 30

(iii) Denominator 21

(iv) Numerator 40

13. Find the fraction equivalent to $45/60$, having:

(i) Numerator 15

(ii) Denominator 4

(ii) Denominator 240

(iv) Numerator 135

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Answers

Section - A

1. $\frac{25}{20}$
2. Two halves
3. $\frac{5}{7}$
4. $\frac{41}{19}$
5. $\frac{1}{4}$

Section - B

6. Minutes in an hour = 60

20 minutes of an hour = $20/60 = 1/3$

7. Natural numbers from 2 to 12 are 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12.

Prime numbers from 2 to 12 are 2, 3, 5, 7 and 11. Out of 11 numbers, 5 are prime.

Fraction of the prime numbers = $5/11$

8. Natural numbers from 102 to 113 are 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112 and 113.

Prime numbers from 102 to 113 are 103, 107, 109 and 113. Out of 12 natural numbers, 4 are prime. Fraction of the prime numbers = $4/12 = 1/3$

Section-C

9. (i) Fraction = $1/2$

Fraction = $2/4 = 1/2$

Fraction = $3/6 = 1/2$

Fraction = $4/8 = 1/2$

Yes, they are equivalent

(ii) Fraction = $5/15 = 1/3$

Fraction = $3/9 = 1/3$

Fraction = $2/6 = 1/3$

Fraction = $1/3$

Yes, they are equivalent

10. (i) (b)

(ii) (c)

(iii) (a)

(iv) (d)

11. (i) $2/7 = 6/21$

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(ii) $5/8 = 10/16$

(iii) $4/5 = 16/20$

Section - D

12. (i) $3/5 = 9$

Consider the numerator = 9

As $3 \times 3 = 9$, we will multiply both the numerator and denominator by 3, we have

$$3/5 \times 3/3 = 9/15$$

(ii) $3/5 = 30$

Consider the denominator = 30

As $5 \times 6 = 30$, we multiply both the numerator and denominator by 6, we have

$$3/5 \times 6/6 = 18/30 = 3/5$$

(iii) $3/5 = 21$

Consider the denominator = 21

As $3 \times 7 = 21$, we multiply both the numerator and denominator by 7, we have

$$3/5 \times 7/7 = 21/35$$

(iv) $3/5 = 40$

Consider the numerator = 40

As $5 \times 8 = 40$, we multiply both the numerator and denominator by 8, we have

$$3/5 \times 8/8 = 24/40$$

13. (i) $45/60 = 15$

Consider the numerator = 15

As $45 \div 3 = 15$, we will divide both the numerator and denominator by 3, we have,

$$45/60 \div 3/3 = 15/20$$

(ii) $45/60 = 4$

Consider the denominator = 4

As $60 \div 15 = 4$, We divide both the numerator and denominator by 15, we have,

$$45/60 \div 15/15 = 3/4$$

(iii) $45/60 = 240$

Consider the denominator = 240

As $60 \times 4 = 240$, we multiply both the numerator and denominator by 4, we have

$$45/60 \times 4/4 = 180/240$$

(iv) $45/60 = 135$

Consider the numerator = 135

As $45 \times 3 = 135$, we multiply both the numerator and denominator by 3, we have $45/60 \times 3/3 =$

$$135/180$$

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