

Mathematics

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(Chapter - 7) (Fractions) (Practice Test 2)

(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

- The identity $(x+3)(x+4) = x^2 + 7x + 12$ is true for
(A) Two values of x (B) One value of x
(C) All value of x (D) None of Above
- What do you call fractions with different denominators?
(A) Like fractions (B) Unlike fractions (C) Proper fractions (D) Improper fractions
- If the numerator and denominator of a fraction are equal then the fraction is:
(A) less than 1 (B) equal to 1 (C) greater than 1 (D) none of these
- Mixed fraction of $\frac{17}{9}$ is:
(A) $1\frac{7}{9}$ (B) $1\frac{5}{9}$ (C) $1\frac{3}{9}$ (D) 6
- A fraction with numerator 1 is called:
(A) like fraction (B) proper fraction (C) unit fraction (D) mixed fraction

Section - B

- Mukesh has a box of 24 pencils. He gives half of them to Sunita. How many does Sunita get? How many does Mukesh still have?
- Kavita has 44 cassettes. She gives $\frac{3}{4}$ of them to Sonia. How many does Sonia get? How many does Kavita keep?
- Shika has three frocks that she wears when playing. The material is good, but the colours are faded. Her mother buys some blue dye and uses it on two of the frocks. What fraction of all of the Shika play frocks did her mother dye?

Section - C

- Write some equivalent fractions which contain all digits from 1 to 9 once only.
- Find the fraction equivalent to $\frac{35}{42}$, having:
(i) Numerator 15
(ii) Denominator 18
(iii) Denominator 30
- Ravish had 20 pencils, shikha had 50 pencils and Priya had 80 pencils. After 4 months, ravish used up 10 pencils, shikha used up 25 pencils and Priya used 40 pencils. What fraction did each use up? Check if each has used up an equal fraction of their pencils?

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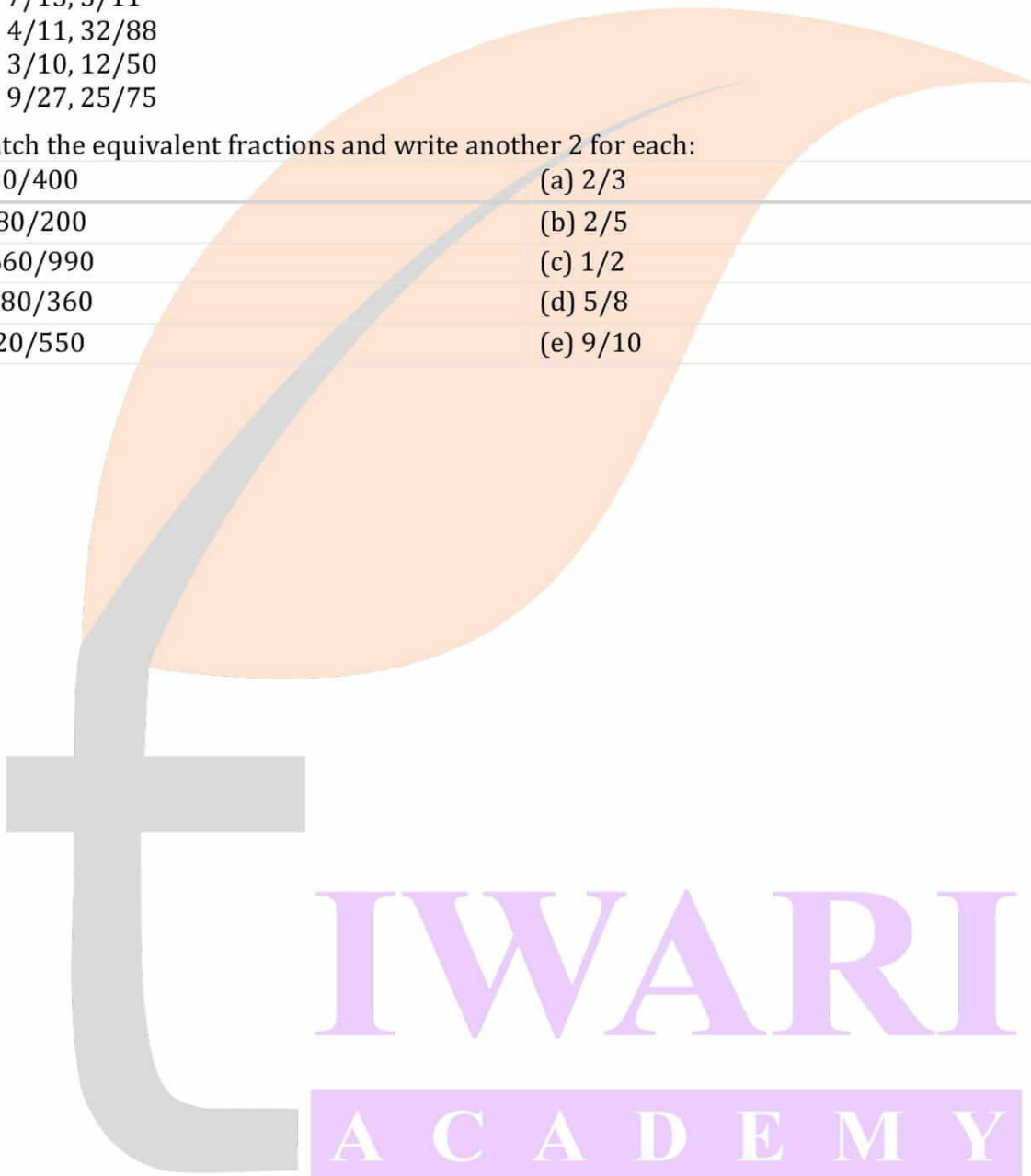
Section - D

12. Check whether the given fractions are equivalent:

- (i) $5/9, 30/54$
- (ii) $2/7, 16/42$
- (iii) $7/13, 5/11$
- (iv) $4/11, 32/88$
- (v) $3/10, 12/50$
- (vi) $9/27, 25/75$

13. Match the equivalent fractions and write another 2 for each:

(i) $250/400$	(a) $2/3$
(ii) $180/200$	(b) $2/5$
(iii) $660/990$	(c) $1/2$
(iv) $180/360$	(d) $5/8$
(v) $220/550$	(e) $9/10$



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Answers

Section - A

1. All value of x
2. Unlike fractions
3. equal to 1
4. $1\frac{3}{9}$
5. unit fraction

Section - B

6. Sunita gets $24/2$ pencils, that is, 12 pencils. Number of pencils Mukesh still has = $24 - 12 = 12$
7. Kavita has 44 cassettes. She gives $3/4$ of the cassettes to Sonia.
For this, Kavita divides 44 cassettes in 4 equal parts and takes 3 parts. Therefore, $44/4 = 11$
It means that Kavita gives 33 cassettes to Sonia. Number of cassettes Kavita has = $44 - 33 = 11$
8. Total frocks Shikha has = 3.
Number of frocks dyed by shikha's mother = 2
Fraction of the dyed frocks = $2/3$ Therefore, shikha's mother dyed $2/3$ of shikha's frocks.

Section-C

9. $2/6 = 3/9 = 58/174$, $2/4 = 3/6 = 79/158$
10. Firstly, we will reduce $35/42$ into the lowest term. Now, we will divide both the numerator and denominator by the HCFs of 35 and 42, i. e., 7, we have $35/42 \div 7/7 = 5/6$
(i) $5/6 = 15$
Consider the numerator = 15
As $5 \times 3 = 15$, we will multiply both the numerator and denominator by 3, we have $5/6 \times 3/3 = 15/18$
(ii) $5/6 = 18$
Consider the denominator = 18
As $6 \times 3 = 18$, we multiply both the numerator and denominator by 3, we have $5/6 \times 3/3 = 15/18$
(iii) $5/6 = 30$
Consider the denominator = 30
As $6 \times 5 = 30$, we multiply both the numerator and denominator by 5, we have $5/6 \times 5/5 = 25/30$
11. Fraction of pencils used by ravish = $10 \div 10/20 \div 10 = 12$
(Dividing both the numerator & denominator by the HCFs of 10 & 20)
Total pencils Shikha had = 50
Pencils used by Shikha = 25
Fraction of pencils used by Shikha = $25 \div 25/50 \div 25 = 12$
(Dividing both the numerator & denominator by the HCFs of 25 & 50)
Total pencils Priya had = 80
Pencils used by Priya = 40
Fraction of pencils used by Priya = $40 \div 40/80 \div 40 = 12$
(Dividing both the numerator & denominator by the HCFs of 40 & 80)
Yes, each of them has utilized an equal fraction of pencils.

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Section - D

12. (i) $5/9 \times 6/6 = 30/54$. Hence, the given fractions are equivalent.

(ii) $2/7 \times 8/8 = 16/42$. 2/7 is not equivalent to 16/42

(iii) $7/13 \times 5/5 = 35/65$ $5/11 \times 7/7 = 35/77$. 7/13 is not equivalent to 5/11

(iv) $4/11 \times 8/8 = 32/88$. 4/11 is equivalent to 32/88

(v) $3/10 \times 4/4 = 12/50$. 3/10 is not equivalent 12/50

(vi) $9/27 \times 13/13 = 25/75$. 9/27 is equivalent 25/75

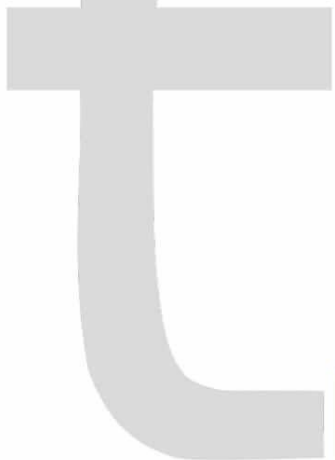
13. (i) (d), 250/400, 5/8

(ii) (e), 180/200, 9/10

(iii) (a), 660/990, 2/3

(iv) (c), 180/360, 1/2

(v) (b), 220/550, 2/5



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