

NISCORT FATHER AGNEL SCHOOL, VAISHALI (2017-18)
SELF LEARNING WORKSHEET -5
CLASS-V
TOPIC-PLAYING WITH NUMBERS

1. Find the factors of the following:

(i) 16 = _____

(ii) 30 = _____

(iii) 27 = _____

(iv) 54 = _____

(v) 72 = _____

(vi) 85 = _____

2. Write the first five multiples of the following:

(i) 6 - _____

(ii) 8 - _____

(iii) 11 - _____

(iv) 15 - _____

3. Which of the followings are even numbers?

18, 37, 55, 62, 69, 73, 86, 92

4. List all the prime numbers between:

(a) 10 and 30 - _____

(b) 75 and 99 - _____

5. List six consecutive composite numbers less than 100.

6. Find the prime factors of the following numbers by the factor tree method:

(i) 90 (ii) 60 (iii) 150

(iv) 144 (v) 210 (vi) 245

7. Find the prime factors of the following numbers using division method:

a) 75

b) 54

d

c) 84

d) 100

8. Which of the following numbers are divisible by 2, 3 and 6?

- a) 26412 b) 8316 c) 17703

9. Find the HCF of the following by prime factorisation method:

- a) 33 and 44 b) 16 and 20
c) 60 and 72 d) 40, 80 and 96

10. Find the HCF of the following by long division method:

- a) 375 and 600 b) 105 and 230
c) 132, 154 and 176 d) 720 and 810

11. Find the LCM by prime factorisation method:

- a) 35 and 25 b) 32 and 40
c) 48, 64 and 72 d) 70 and 78

12. Find the LCM with the help of division method:

- a) 20, 30 and 50 b) 24, 15 and 36
c) 18, 24 and 60 d) 12, 48 and 60

ANSWERS:

1. (i) 1,2,4,8,16 (ii) 1,2,3,5,6,10,15,30
(iii) 1,3,9,27 (iv) 1,2,3,6,9,18,27,54
(v) 1,2,3,4,6,8,9,12,18,24,36,72 (vi) 1,5,17,85
2. (i) 6,12,18,24,30 (ii) 8,16,24,32,40
(iii) 11,22,33,44,55 (iv) 15,30,45,60,75
3. 18,62,86,92
4. a. 11,13,17,19,23,29
b. 79,83,89,97
5. 91,92,93,94,95,96
6. i) $2 \times 3 \times 3 \times 5$
ii) $2 \times 2 \times 3 \times 5$
iii) $3 \times 2 \times 5 \times 5$
iv) $2 \times 2 \times 2 \times 2 \times 3 \times 3$
v) $2 \times 3 \times 5 \times 7$
vi) $5 \times 7 \times 7$
7. (a) $3 \times 5 \times 5$
(b) $2 \times 3 \times 3 \times 3$
(c) $2 \times 2 \times 3 \times 7$
(d) $2 \times 2 \times 5 \times 5$
8. (a)&(b)
9. (a) 11 (b) 4 (c) 12 (d) 8
10. (a) 75 (b) 5 (c) 22 (d) 90
11. (a) 175 (b) 160 (c) 576 (d) 2730
12. (a) 300 (b) 180 (c) 360 (d) 240

NISCORT FATHER AGNEL SCHOOL, VAISHALI (2017-18)
SELF LEARNING WORKSHEET - 6
CLASS-V
TOPIC-FRACTIONS

1. Write the first three equivalent fractions of each of the following:

(a) $\frac{3}{5}$ - _____

(b) $\frac{2}{3}$ - _____

(c) $\frac{4}{7}$ - _____

2. Find an equivalent fraction of:

(a) $\frac{1}{8}$ with denominator 24 = _____

(b) $\frac{5}{9}$ with denominator 45 = _____

3. Find an equivalent fraction of:

(a) $\frac{4}{9}$ with numerator 20 = _____

(b) $\frac{2}{5}$ with numerator 20 = _____

4. Find the missing numerals in each of the following

(a) $\frac{7}{10} = \frac{49}{\quad}$

(b) $\frac{5}{12} = \frac{\quad}{60}$

5. Reduce the following to lowest terms:

(a) $\frac{18}{33} = \frac{\quad}{\quad}$

(b) $\frac{54}{90} = \frac{\quad}{\quad}$

6. Which of the following fractions are proper and which are improper fractions:

(a) $\frac{13}{9}$

(b) $\frac{11}{19}$

(c) $\frac{12}{5}$

(d) $\frac{8}{17}$

7. Express each of the following as a mixed fraction:

(a) $\frac{17}{7}$

(b) $\frac{21}{10}$

8. Express each of the following as a improper fraction:

(a) $4\frac{1}{3}$ (b) $5\frac{2}{3}$

9. Fill in the boxes using sign > or < or = :

(a) $\frac{5}{24}$ _____ $\frac{3}{8}$ (d) $\frac{5}{9}$ _____ $\frac{3}{18}$
(b) $\frac{5}{6}$ _____ $\frac{8}{15}$ (e) $\frac{7}{12}$ _____ $\frac{21}{19}$
(c) $\frac{5}{7}$ _____ $\frac{30}{42}$ (f) $\frac{3}{10}$ _____ $\frac{17}{25}$

10. Arrange in ascending order:

(a) $\frac{2}{3}$, $\frac{5}{9}$ and $\frac{3}{18}$ (b) $\frac{3}{10}$, $\frac{21}{25}$ and $\frac{4}{5}$

11. Arrange in descending order:

(a) $\frac{5}{24}$, $\frac{2}{4}$ and $\frac{3}{8}$ (b) $\frac{3}{50}$, $\frac{17}{25}$ and $\frac{21}{50}$

12. Find the sum of:

(a) $\frac{3}{7}$, $\frac{3}{8}$ (c) $\frac{3}{7}$, $\frac{1}{8}$
(b) $\frac{4}{5}$, $\frac{3}{4}$ (d) $\frac{7}{10}$, $\frac{5}{8}$

13. Subtract:

(a) $\frac{4}{9}$ from $\frac{5}{6}$ (c) $\frac{2}{7}$ from $\frac{7}{8}$
(b) $\frac{1}{3}$ from $\frac{2}{5}$ (d) $\frac{3}{7}$ from $\frac{5}{8}$

14. Multiply:

(a) $3 \times \frac{2}{7}$ (c) $5 \times \frac{2}{9}$
(b) $5 \times \frac{4}{25}$ (d) $6 \times \frac{2}{15}$

ANSWERS:

1. (a) $\frac{6}{10}, \frac{9}{15}, \frac{12}{20}$

(b) $\frac{4}{6}, \frac{6}{9}, \frac{8}{12}$

(c) $\frac{2}{16}, \frac{3}{24}, \frac{4}{32}$

2. (a) $\frac{3}{24}$ (b) $\frac{25}{45}$

3. (a) $\frac{20}{45}$ (b) $\frac{20}{50}$

4. (a) 70 (b) 25

5. (a) $\frac{6}{11}$ (b) $\frac{3}{5}$

6. (a) Improper (b) Proper (c) Improper (d) Proper

7. (a) $2\frac{3}{7}$ (b) $2\frac{1}{10}$

8. (a) $\frac{13}{3}$ (b) $\frac{17}{3}$

9. (a) < (b) > (c) = (d) > (e) < (f) <

10. (a) $\frac{3}{18}, \frac{5}{9}, \frac{2}{3}$ (b) $\frac{3}{10}, \frac{4}{5}, \frac{21}{25}$

11. (a) $\frac{2}{4}, \frac{3}{8}, \frac{5}{24}$ (b) $\frac{17}{25}, \frac{21}{50}, \frac{3}{50}$

12. (a) $\frac{45}{56}$ (b) $\frac{31}{20}$ (c) $\frac{31}{56}$ (d) $\frac{53}{40}$

13. (a) $\frac{7}{18}$ (b) $\frac{1}{15}$ (c) $\frac{33}{56}$ (d) $\frac{11}{56}$

14. (a) $\frac{6}{7}$ (b) $\frac{4}{5}$ (c) $\frac{10}{9}$ (d) $\frac{4}{5}$