

St. Andrews Scots Sr. Sec. School

I.P.Extension, Patparganj, Delhi- 110092

Session:2026-2027

Subject: Mathematics

Class: IV

Unit-5 (Fractions)

Questions to be done:

Ex 5A: - Book

Ex 5B: - Q1 in Book

Q2 a, b in Notebook

Q3,4,5 in Book

Q6 b, d, f in Notebook

Q7 a, c, e in Notebook

Q8 in Book

Ex 5C: - Q1 a in Book

Q2 b, d, f in Notebook

Q3 in Book

Q4 b, d in Notebook

Q5 a in Notebook

Q6 in Book

Ex 5D: - Q1 a, e, f in Book

Q2 a, c in Notebook

Q3 b, d in Notebook

Q4 a in Notebook

Ex 5E: - Q1 in Book

Q2 a, d in Notebook

Q3 a, b in Notebook

Ex 5F: Q1 in Book

Q2 a, b, c in Book

Q3 a, c in Notebook

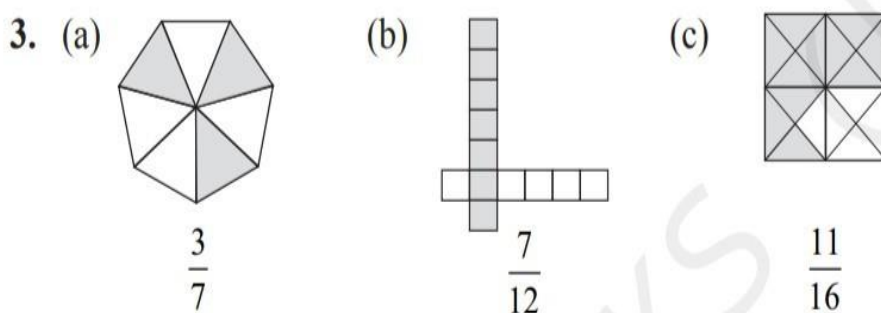
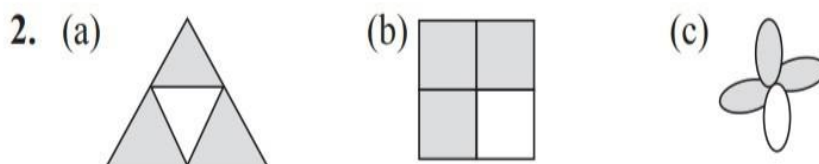
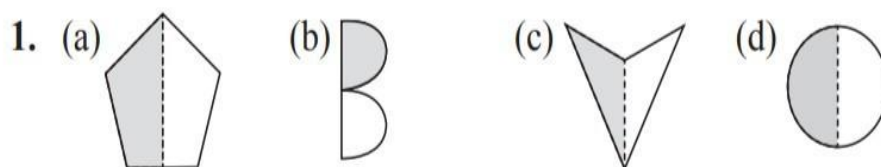
Ex 5G: - Q1 ,4 ,6 in Notebook

Review Time

Worksheet

Activity

Exercise 5A



4. (a) $\frac{6}{8}$ (b) $\frac{5}{8}$ (c) $\frac{5}{8}$

5. (a) $\frac{2}{7}$ (b) $\frac{3}{11}$ (c) $\frac{5}{8}$ (d) $\frac{6}{13}$ (e) $\frac{4}{7}$ (f) $\frac{1}{9}$

6. (a) Two-sevenths (b) Five-sixteenths (c) Eight-nineteenths
(d) Four-elevenths (e) Eleven-seventeenths
(f) Three-tenths

7. (a) $\frac{4}{31}$, Numerator = 4, Denominator = 31.
 (b) $\frac{2}{13}$, Numerator = 2, Denominator = 13.
 (c) $\frac{4}{7}$, Numerator = 4, Denominator = 7.
 (d) $\frac{11}{15}$, Numerator = 11, Denominator = 15.
 (e) $\frac{19}{31}$, Numerator = 19, Denominator = 31.
 (f) $\frac{8}{53}$, Numerator = 8, Denominator = 53.
8. (a) $\frac{3}{13}$ (b) $\frac{7}{15}$ (c) $\frac{1}{7}$ (d) $\frac{5}{18}$

Exercise 5B

1. (a) $\frac{3}{5}, \frac{4}{5}$ (c) $\frac{2}{9}, \frac{4}{9}, \frac{5}{9}, \frac{6}{9}$
2. (a) $\frac{1}{3}, \frac{2}{3}, \frac{4}{3}$ (many answers possible)
 (b) $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}$ (many answers possible)
 (c) $\frac{1}{11}, \frac{2}{11}, \frac{3}{11}$ (many answers possible)
3. Proper fractions are:
 (a) $\frac{3}{7}$ (c) $\frac{4}{5}$ (e) $\frac{9}{17}$
4. Improper fractions are:
 (a) $\frac{11}{5}$ (c) $\frac{16}{5}$ (d) $\frac{23}{20}$ (f) $\frac{83}{70}$
5. No, $\frac{1}{1}$ is a unit fraction, but not a proper fraction.
6. (a) $3\frac{2}{5} = \frac{17}{5}$ (b) $7\frac{1}{4} = \frac{29}{4}$ (c) $6\frac{2}{7} = \frac{44}{7}$

$$(d) 3\frac{4}{9} = \frac{31}{9}$$

$$(e) 1\frac{2}{11} = \frac{13}{11}$$

$$(f) 3\frac{2}{17} = \frac{53}{17}$$

$$7. (a) \frac{18}{7} = 2\frac{4}{7}$$

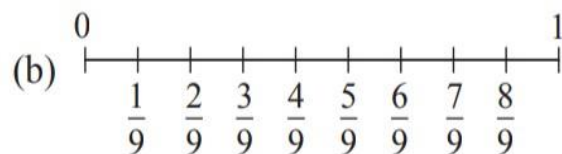
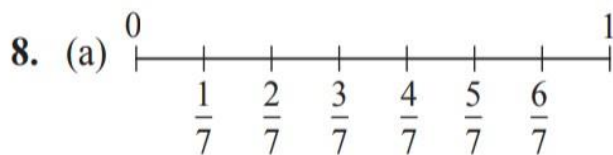
$$(b) \frac{42}{9} = 4\frac{6}{9}$$

$$(c) \frac{37}{6} = 6\frac{1}{6}$$

$$(d) \frac{54}{5} = 10\frac{4}{5}$$

$$(e) \frac{100}{3} = 33\frac{1}{3}$$

$$(f) \frac{83}{4} = 20\frac{3}{4}$$



Exercise 5C

$$1. (a) \frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21}$$

$$(b) \frac{3}{7} = \frac{6}{14} = \frac{9}{21} = \frac{12}{28} = \frac{15}{35} = \frac{18}{42} = \frac{21}{49}$$

$$(c) \frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30} = \frac{14}{35}$$

$$2. (a) \frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

$$(b) \frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$$

$$(c) \frac{7}{9} = \frac{14}{18} = \frac{21}{27} = \frac{28}{36}$$

$$(d) \frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24}$$

$$(e) \frac{3}{10} = \frac{6}{20} = \frac{9}{30} = \frac{12}{40}$$

$$(f) \frac{8}{11} = \frac{16}{22} = \frac{24}{33} = \frac{32}{44}$$

$$(g) \frac{4}{7} = \frac{8}{14} = \frac{12}{21} = \frac{16}{28}$$

$$(h) \frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$

$$3. (a) \frac{2}{7} = \frac{\boxed{10}}{35}$$

$$(b) \frac{3}{8} = \frac{15}{\boxed{40}}$$

$$(c) \frac{42}{54} = \frac{\boxed{7}}{9}$$

$$(d) \frac{5}{9} = \frac{\boxed{40}}{72}$$

$$(e) \frac{32}{40} = \frac{\boxed{4}}{5}$$

$$(f) \frac{40}{56} = \frac{5}{\boxed{7}}$$

4. Equivalent fraction of $\frac{5}{8}$ with:

$$(a) \text{ Numerator } 35; \frac{5}{8} \times \frac{7}{7} = \frac{35}{56} \quad (b) \text{ Denominator } 72; \frac{5}{8} \times \frac{9}{9} = \frac{45}{72}$$

$$(c) \text{ Numerator } 15; \frac{5}{8} \times \frac{3}{3} = \frac{15}{24} \quad (d) \text{ Denominator } 64; \frac{5}{8} \times \frac{8}{8} = \frac{40}{64}$$

5. Equivalent fraction of $\frac{48}{80}$ with:

$$(a) \text{ Numerator } 6; \frac{48 \div 8}{80 \div 8} = \frac{6}{10} \quad (b) \text{ Denominator } 5; \frac{48 \div 16}{80 \div 16} = \frac{3}{5}$$

6. The equivalent fractions are:

$$(b) \frac{8}{14} \text{ and } \frac{12}{21} \quad (c) \frac{6}{8} \text{ and } \frac{21}{28} \quad (d) \frac{6}{9} \text{ and } \frac{10}{15} \quad (e) \frac{16}{24} \text{ and } \frac{2}{3}.$$

Exercise 5D

$$1. (a) \frac{3}{7} \boxed{<} \frac{3}{5} \quad (b) \frac{8}{11} \boxed{>} \frac{4}{11} \quad (c) \frac{7}{8} \boxed{>} \frac{7}{13}$$

$$(d) \frac{2}{7} \boxed{>} \frac{2}{9} \quad (e) \frac{7}{11} \boxed{>} \frac{7}{15} \quad (f) \frac{10}{23} \boxed{>} \frac{10}{25}$$

$$2. (a) \frac{2}{5} > \frac{2}{7} > \frac{2}{9} > \frac{2}{11} \quad (b) \frac{1}{3} > \frac{1}{5} > \frac{1}{9} > \frac{1}{12}$$

$$(c) \frac{8}{9} > \frac{8}{11} > \frac{8}{13} > \frac{8}{15} \quad (d) \frac{5}{6} > \frac{5}{7} > \frac{5}{11} > \frac{5}{13}$$

$$(e) \frac{3}{7} > \frac{3}{9} > \frac{3}{11} > \frac{3}{13} \quad (f) \frac{7}{8} > \frac{7}{9} > \frac{7}{11} > \frac{7}{13}$$

$$3. (a) \frac{1}{12} < \frac{1}{9} < \frac{1}{6} < \frac{1}{3} \quad (b) \frac{6}{17} < \frac{6}{13} < \frac{6}{9} < \frac{6}{7}$$

$$(c) \frac{4}{18} < \frac{4}{15} < \frac{4}{10} < \frac{4}{5} \quad (d) \frac{2}{13} < \frac{6}{13} < \frac{8}{13} < \frac{9}{13}$$

$$(e) \frac{1}{5} < \frac{2}{5} < \frac{3}{5} < \frac{4}{5} \quad (f) \frac{2}{17} < \frac{4}{17} < \frac{8}{17} < \frac{9}{17}$$

$$4. (a) \frac{4}{9} \times \frac{5}{12} \Rightarrow 4 \times 12 = 48$$

$$\Rightarrow 9 \times 5 = 45$$

Here, $48 > 45$

$$\text{Then, } \frac{4}{9} > \frac{5}{12}$$

$$(b) \frac{5}{12} \times \frac{9}{10} \Rightarrow 12 \times 9 = 108$$

$$\Rightarrow 5 \times 10 = 50$$

Here, $108 > 50$

$$\text{Then, } \frac{9}{10} > \frac{5}{12}$$

$$(c) \frac{4}{9} \times \frac{7}{12} \Rightarrow 9 \times 7 = 63$$

$$\Rightarrow 4 \times 12 = 48$$

Here, $63 > 48$

$$\text{Then, } \frac{7}{12} > \frac{4}{9}$$

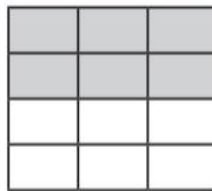
Exercise 5E

1. (b)



$$\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$$

(c)



$$\frac{5}{16} + \frac{3}{16} = \frac{8}{16} = \frac{1}{2}$$

(d)



$$\frac{5}{16} + \frac{3}{16} = \frac{8}{16} = \frac{4}{8}$$

2. (a) $\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$

(b) $\frac{8}{15} + \frac{3}{15} + \frac{1}{15} = \frac{12}{15}$

(c) $\frac{9}{16} + \frac{5}{16} = \frac{14}{16}$

(d) $\frac{6}{13} + \frac{4}{13} + \frac{2}{13} = \frac{12}{13}$

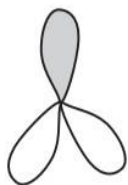
$$3. (a) \frac{5}{6} + \frac{2}{6} = \frac{5+2}{6} = \frac{7}{6} \quad (b) \frac{1}{10} + \frac{2}{10} + \frac{3}{10} = \frac{1+2+3}{10} = \frac{6}{10}$$

$$(c) \frac{3}{20} + \frac{5}{20} + \frac{6}{20} = \frac{3+5+6}{20} = \frac{14}{20}$$

$$(d) \frac{3}{12} + \frac{5}{12} + \frac{1}{12} = \frac{3+5+1}{12} = \frac{9}{12}$$

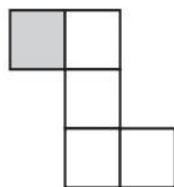
Exercise 5F

1. (b)



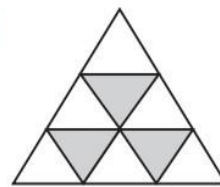
$$\frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$$

(c)



$$\frac{3}{5} - \frac{2}{5} = \boxed{\frac{1}{5}}$$

(d)



$$\frac{5}{9} - \frac{2}{9} = \boxed{\frac{3}{9}}$$

$$2. (a) \frac{3}{4} - \frac{1}{4} = \boxed{\frac{2}{4}}$$

$$(b) \frac{8}{11} - \frac{3}{11} = \boxed{\frac{5}{11}}$$

$$(c) \frac{13}{15} - \frac{4}{15} = \boxed{\frac{9}{15}}$$

$$(d) \frac{7}{9} - \frac{4}{9} = \boxed{\frac{3}{9}}$$

$$(e) \frac{7}{13} - \frac{3}{13} = \boxed{\frac{4}{13}}$$

$$(f) \frac{9}{10} - \frac{8}{10} = \boxed{\frac{1}{10}}$$

$$3. (a) \frac{4}{5} - \frac{2}{5} = \frac{4-2}{5} = \frac{2}{5}$$

$$(b) \frac{6}{7} - \frac{3}{7} = \frac{6-3}{7} = \frac{3}{7}$$

$$(c) \frac{7}{13} - \frac{2}{13} = \frac{7-2}{13} = \frac{5}{13}$$

$$(d) \frac{9}{11} - \frac{7}{11} = \frac{9-7}{11} = \frac{2}{11}$$

Exercise 5G

$$1. \text{ Sugar used} = \frac{1}{10} \text{ kg}$$

$$\text{Wheat flour used} = \frac{2}{10} \text{ kg}$$

$$\text{Butter used} = \frac{3}{10} \text{ kg}$$

$$\text{Total weight of things} = \frac{1}{10} + \frac{2}{10} + \frac{3}{10} = \frac{1+2+3}{10} = \frac{6}{10} = \frac{3}{5} \text{ kg}$$

2. White paint = $\frac{1}{7}$ L

Yellow paint = $\frac{2}{7}$ L

Total quantity of paint = $\frac{1}{7} + \frac{2}{7} = \frac{1+2}{7} = \frac{3}{7}$ L

3. Journey by bus = $\frac{2}{11}$ km

Journey by car = $\frac{3}{11}$ km

Journey by walking = $\frac{1}{11}$ km

Total journey = $\frac{2}{11} + \frac{3}{11} + \frac{1}{11} = \frac{6}{11}$ km

4. Sahil's skipping rope's length = $\frac{3}{4}$ m

Tanya's skipping rope's length = $\frac{3}{5}$ m

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}, \frac{3 \times 4}{5 \times 4} = \frac{12}{20}$$

Since, $\frac{15}{20} > \frac{12}{20} = \frac{3}{4} \text{ m} > \frac{3}{5} \text{ m}$

Thus, Sahil's rope is longer by $\frac{15}{20} - \frac{12}{20} = \frac{3}{20}$ m

5. Part of pizza eaten by Raju = $\frac{3}{5}$

Part of pizza eaten by pallavi = $\frac{1}{5}$

Since, $\frac{3}{5} > \frac{1}{5}$

Thus, Raju ate more by $\frac{3}{5} - \frac{1}{5} = \frac{3-1}{5} = \frac{2}{5}$ part of pizza

6. Part of book read by Jimmy on Monday = $\frac{2}{6}$
 Part of book read by Jimmy on Tuesday = $\frac{3}{6}$
 Part of book read by Jimmy in both days = $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$
 Part of book left to read = $1 - \frac{5}{6} = \frac{6-5}{6} = \frac{1}{6}$
7. Part of cake eaten on Tuesday = $\frac{3}{4}$
 Part of cake eaten on Wednesday = $\frac{3}{6}$
 Since, $\frac{3}{4} > \frac{3}{6}$
 Thus, on Tuesday Jaya ate more cake.

Review Time

- I. 1. (a) 2. (b) 3. (b) 4. (c) 5. (c)
- II. 1. Denominator 2. Numerator 3. 43
4. 11 5. $\frac{2}{9}$ 6. four
- III. 1. Total fraction of the banana, orange, mango trees

$$\Rightarrow \frac{2}{8} + \frac{1}{8} + \frac{4}{8} \quad \left[\because \frac{1}{2} = \frac{4}{8} \right]$$

$$\Rightarrow \frac{2+1+4}{8} = \frac{7}{8}$$

Remaining part (Apple trees) = Total Orchard - Total fraction of the banana, orange, mango trees.

$$\Rightarrow 1 - \frac{7}{8} = \frac{8}{8} - \frac{7}{8} = \frac{1}{8}$$

2. $\frac{1}{8} < \frac{4}{8} < \frac{1}{2}$

3. No of trees in Orchard = 1600

$$\text{Number of mango trees} = \frac{1}{2} \times 1600 = 800$$

4. $\frac{1}{2}$ part of apple trees = $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$

Fraction of mango tree = $\frac{1}{2} = \frac{4}{8} = \frac{8}{16}$

Total fraction of mango trees = $\frac{1}{6} + \frac{8}{16} = \frac{9}{16}$