Fraction (भिन्न)

अंश < हर → **Proper fraction** → $\frac{\text{अंश}}{\text{हर}}$ $\frac{\text{(Numerator)}}{\text{(Denominator)}}$

Ex → $\frac{4}{7}, \frac{10}{17}, \frac{12}{13}, \frac{4}{5}$

Improper fraction. → हर < अंश

$\frac{4}{3}, \frac{8}{6}, \frac{15}{9}, \frac{20}{17}$.

* $\frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}$ में सबसे बड़ी भिन्न → ?

4) 30 (.7 → 70
28

5) 40 (0.80 → 80
40

6) 50 (.83 → 83
48
20
18

7) 60 (0.85 → 85.
56
40
35
×

Proper fraction छोटी $\frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}$ बड़ी

* $\frac{9}{11}, \frac{11}{13}, \frac{13}{15}, \frac{27}{29}$ सबसे बड़ी भिन्न = ?

$\frac{9}{11} < \frac{11}{13} < \frac{13}{15} < \frac{27}{29}$ आरोही क्रम (ascending order) → $\frac{9}{11}, \frac{11}{13}, \frac{13}{15}, \frac{27}{29}$

* $\frac{4}{3}, \frac{5}{4}, \frac{6}{5}, \frac{7}{6}$ में सबसे बड़ी भिन्न → ? Improper fraction.

3) 4 (1.33
3
10
9
10

4) 5 (1.25
4
10
8
20
20
×

5) 6 (1.2
5
10
10
×

6) 7 (1.1
6
10
6
4

$\frac{1.33}{133}, \frac{1.25}{125}, \frac{1.2}{12}, \frac{1.1}{11}$

1. What is the difference between the biggest and the smallest fraction among $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}$ and $\frac{5}{6}$?
$\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$ में से सबसे बड़ी और सबसे छोटी भिन्न के बीच क्या अंतर है।
RRB NTPC 15.02.2021 (Shift-II) Stage 1st

(a) $\frac{1}{30}$ (b) $\frac{1}{6}$ (c) $\frac{1}{12}$ (d) $\frac{1}{20}$

$\Rightarrow \frac{2}{3}\uparrow, \frac{3}{4}\uparrow, \frac{4}{5}\uparrow, \frac{5}{6}\uparrow$

$\Rightarrow \frac{5}{6} - \frac{2\times2}{3\times2} \Rightarrow \frac{5-4}{6} \Rightarrow \frac{1}{6}$.

\# $\frac{2}{3}\uparrow, \frac{3}{5}\uparrow^2, \frac{5}{8}\uparrow^3$ में सबसे बड़ी भिन्न ⇒ ?

$\Rightarrow \frac{2\times6}{1\times6}, \frac{3\times3}{2\times3}, \frac{5\times2}{3\times2}$ → LCM ⇒ 6.

$\Rightarrow \frac{12}{6}, \frac{9}{6}, \frac{10}{6}$

$\frac{2}{3}$ $\frac{3}{5}$

4. Which of the following is the smallest fraction?
निम्नलिखित में से कौन सी भिन्न सबसे छोटी है?

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

$\frac{4}{9}, \frac{5}{4}, \frac{3}{8}, \frac{6}{7}$ RRB Group-D- 16/10/2018 (Shift-II)

सबसे बड़ी

$\frac{4}{9}\uparrow^5, \frac{5}{4}\uparrow^1, \frac{3}{8}\uparrow^5, \frac{6}{7}\uparrow^{1\times5}$

LCM ⇒ 5

* $\frac{5}{9}$ (0.55), $\frac{10}{13}$ (0.7), $\frac{7}{12}$ (0.58), $\frac{9}{14}$ (0.6) सबसे बड़ी, छोटी ⇒ ?

9) 50 (0.55 — 45 — 50

13) 100 (0.7 — 91

12) 70 (0.58 — 60 — 100 — 96

14) 90 (0.64 — 84 — 60 — 56 — 4

सबसे बड़ी

सबसे छोटी

* $\frac{5}{9}\uparrow^{\times15}_{\times15}, \frac{10}{13}\uparrow^{\times20}_{\times20}, \frac{7}{12}\uparrow^{\times20}_{\times20}, \frac{9}{14}\uparrow^{\times12}_{\times12}$

75, 200, 84, 108

LCM = 60

सबसे छोटी

सबसे बड़ी

(ascending order) ⇒ $\frac{5}{9}, \frac{7}{12}, \frac{9}{14}, \frac{10}{13}$.

5. Which of the following fractions is the largest?
निम्नलिखित में से कौन-सी भिन्न सबसे बड़ी है?

(a) $\frac{3}{16}$
(b) $\frac{4}{20}$
(c) $\frac{1}{8}$
(d) $\frac{2}{12}$.

$\frac{1}{8}, \frac{2}{12}, \frac{3}{16}, \frac{4}{20}$

$\Rightarrow$ $\frac{1}{8}, \frac{2}{12}, \frac{3}{16}, \frac{4}{20}$ — LCM $\Rightarrow$ 7, 10, 13, 16

$\Rightarrow$ $\frac{1}{8}, \frac{1}{6}, \frac{3}{16}, \frac{1}{5}$

$\Rightarrow$ $\frac{3}{16}, \frac{1}{4}$ — 13×4, 4×13

52

6. Which of the following fractions are in ascending order?
निम्नलिखित में से कौन सी भिन्नें आरोही क्रम में हैं?

RRB NTPC 05.03.2021 (Shift - II)

(a) $\frac{12}{18}, \frac{14}{17}, \frac{16}{19}$
(b) $\frac{14}{17}, \frac{12}{18}, \frac{16}{19}$
(c) $\frac{16}{19}, \frac{14}{17}, \frac{12}{18}$
(d) $\frac{12}{18}, \frac{16}{19}, \frac{14}{17}$.

12, 28, 32

$\frac{12}{18}, \frac{14}{17}, \frac{16}{19}$ — 3×2, 3×2

LCM $\Rightarrow$ 6.

7. The ascending order of the fractions $\frac{2}{3}, \frac{1}{2}$ and $\frac{1}{6}$ is —
भिन्नों $\frac{2}{3}, \frac{1}{2}$ और $\frac{1}{6}$ का आरोही क्रम है —

(a) $\frac{2}{3}, \frac{1}{2}, \frac{1}{6}$
(b) $\frac{2}{3}, \frac{1}{6}, \frac{1}{2}$
(c) $\frac{1}{6}, \frac{1}{2}, \frac{2}{3}$
(d) $\frac{1}{6}, \frac{2}{3}, \frac{1}{2}$.

10, 5, 1

$\frac{2 \times 5}{3}, \frac{1 \times 5}{2}, \frac{1}{6}$

LCM $\Rightarrow$ 5

$\frac{1}{6}, \frac{1}{2}, \frac{2}{3}$.

8. In which of the following options are the fractions arranged in ascending order?
निम्नलिखित में से किस विकल्प में भिन्नों को आरोही क्रम में व्यवस्थित किया गया है?

(a) $\frac{2}{11}, \frac{6}{7}, \frac{5}{6}, \frac{2}{5}, \frac{3}{8}$
(b) $\frac{6}{7}, \frac{5}{6}, \frac{9}{11}, \frac{2}{5}, \frac{3}{8}$
(c) $\frac{2}{5}, \frac{6}{7}, \frac{9}{11}, \frac{3}{8}, \frac{5}{6}$
(d) $\frac{3}{8}, \frac{2}{5}, \frac{9}{11}, \frac{5}{6}, \frac{6}{7}$.

$\Rightarrow \frac{9}{11}, \frac{6}{7}, \frac{5}{6}, \frac{2}{5}, \frac{3}{8}$

$\frac{9}{2\times15}, \frac{6}{1\times30}, \frac{5}{1\times30}, \frac{2}{3\times10}, \frac{3\times6}{5\times6}$

LCM $\Rightarrow$ 30

$\frac{135}{30}, \frac{180}{30}, \frac{150}{30}, \frac{20}{30}, \frac{18}{30} \Rightarrow \frac{3}{8}, \frac{2}{5}, \frac{9}{11}, \frac{5}{6}, \frac{6}{7}$. Ans

12. Which of the following is in descending order?
निम्नलिखित में से कौन सा अवरोही क्रम में है?
RRB RPF Constable - 25/01/2019 (SHIFT-I)

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

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

(c) $\frac{4}{5}, \frac{3}{4}, \frac{2}{3}, \frac{1}{2}$

(d) $\frac{4}{5}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$

$\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{1}{2}$

$\frac{4}{5}, \frac{3}{4}, \frac{2}{3}, \frac{1}{2}$.

13. Whose ascending order from the following numbers is correct?
निम्नलिखित संख्याओं में से किसका अरोही क्रम सही है।
RRB RPF Constable (20/01/2019) SHIFT-I

(a) $\frac{5}{6}, \frac{3}{5}, \frac{7}{9}$

(b) $\frac{3}{5}, \frac{5}{6}, \frac{7}{9}$

(c) $\frac{3}{5}, \frac{7}{9}, \frac{5}{6}$

(d) $\frac{7}{9}, \frac{3}{5}, \frac{5}{6}$

10 — 3 — 7

$\frac{5}{6}$ (×2), $\frac{3}{5}$ (×3), $\frac{7}{9}$ (×2)

LCM $\Rightarrow$ 2

$\frac{3}{5}, \frac{7}{9}, \frac{5}{6}$

14. Which of the following is terminating decimal?
निम्नलिखित में से कौन-सा सांत दशमलव है?
RRB RPF-SI - 05/01/2019 (SHIFT-II)

(a) $\frac{1}{32}$

(b) $\frac{1}{24}$

(c) $\frac{1}{96}$

(d) $\frac{1}{48}$.