



THE MATH HUB

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Fractions & Decimals MCQs

100 FULLY SOLVED MCQs

PPSC, FPSC & ONE PAPER EXAMS

NTS • CSS MPT • PMS • Government Job Tests

Fast Methods • Four Options • Immediate Mathematical Solution

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PART 4 - FRACTIONS & DECIMALS | 100 SOLVED MCQs**Fast Fractions and Decimals Foundation****Equivalent fractions**

$$\frac{a}{b} = \frac{ak}{bk}, \quad k \neq 0$$

Reduce by dividing numerator and denominator by their HCF.

Addition / subtraction

$$\frac{a}{b} \pm \frac{c}{d} = \frac{ad \pm bc}{bd}$$

For speed, use the LCM of denominators instead of multiplying them blindly.

Multiplication

$$\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$$

Cancel common factors before multiplying.

Division

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$$

Keep the first fraction, multiply by the reciprocal of the second.

Fraction and decimal conversion

$$0.375 = \frac{375}{1000} = \frac{3}{8}$$

$$\frac{7}{20} = \frac{35}{100} = 0.35$$

Exam-speed facts

$$\frac{1}{2} = 0.5, \quad \frac{1}{4} = 0.25, \quad \frac{3}{4} = 0.75$$

$$\frac{1}{5} = 0.2, \quad \frac{1}{8} = 0.125, \quad \frac{3}{8} = 0.375$$

$$\frac{5}{8} = 0.625, \quad \frac{7}{8} = 0.875$$

Fractions and Decimals - 100 Fully Solved MCQs

MCQ 1

Simplify $\frac{18}{24}$.

- A. $\frac{2}{3}$
C. $\frac{4}{5}$

- B. $\frac{3}{4}$
D. $\frac{5}{6}$

Solution

$$\text{gcd}(18, 24) = 6$$

$$\frac{18}{24} = \frac{18 \div 6}{24 \div 6} = \frac{3}{4}$$

Final Answer

$$\frac{3}{4}$$

— Option B

MCQ 4

Simplify $\frac{84}{126}$.

- A. $\frac{1}{2}$
C. $\frac{3}{4}$

- B. $\frac{2}{3}$
D. $\frac{5}{6}$

Solution

$$\text{gcd}(84, 126) = 42$$

$$\frac{84}{126} = \frac{84 \div 42}{126 \div 42} = \frac{2}{3}$$

Final Answer

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

— Option B

MCQ 2

Simplify $\frac{28}{42}$.

- A. $\frac{2}{3}$
C. $\frac{4}{7}$

- B. $\frac{3}{4}$
D. $\frac{5}{7}$

Solution

$$\text{gcd}(28, 42) = 14$$

$$\frac{28}{42} = \frac{28 \div 14}{42 \div 14} = \frac{2}{3}$$

Final Answer

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

— Option A

MCQ 5

Simplify $\frac{96}{144}$.

- A. $\frac{2}{3}$
C. $\frac{4}{5}$

- B. $\frac{3}{4}$
D. $\frac{5}{8}$

Solution

$$\text{gcd}(96, 144) = 48$$

$$\frac{96}{144} = \frac{2}{3}$$

Final Answer

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

— Option A

MCQ 3

Simplify $\frac{63}{81}$.

- A. $\frac{5}{9}$
C. $\frac{7}{8}$

- B. $\frac{7}{9}$
D. $\frac{8}{9}$

Solution

$$\text{gcd}(63, 81) = 9$$

$$\frac{63}{81} = \frac{7}{9}$$

Final Answer

$$\frac{7}{9}$$

— Option B

MCQ 6

Which fraction is equivalent to $\frac{5}{7}$?

- A. $\frac{20}{28}$
C. $\frac{15}{28}$

- B. $\frac{25}{30}$
D. $\frac{30}{49}$

Common one-paper fraction pattern; values independently constructed.

Solution

$$\frac{5}{7} \times \frac{4}{4} = \frac{20}{28}$$

Final Answer

$$\frac{20}{28}$$

— Option A

MCQ 7If $\frac{3}{5} = \frac{x}{40}$, find x .

- A. 18 B. 20
C. 24 D. 30

Solution

$$\frac{3}{5} = \frac{x}{40}$$

$$5x = 3(40) = 120$$

$$x = 24$$

Final Answer

24 — Option C

MCQ 8If $\frac{7}{9} = \frac{35}{x}$, find x .

- A. 40 B. 45
C. 50 D. 54

Solution

$$\frac{7}{9} = \frac{35}{x}$$

$$7x = 9(35) = 315$$

$$x = 45$$

Final Answer

45 — Option B

MCQ 9Convert $\frac{17}{5}$ to a mixed number.

- A. $2\frac{2}{5}$ B. $3\frac{2}{5}$
C. $3\frac{3}{5}$ D. $4\frac{1}{5}$

Solution

$$17 = 5(3) + 2$$

$$\frac{17}{5} = 3\frac{2}{5}$$

Final Answer $3\frac{2}{5}$ — Option B**MCQ 10**Convert $4\frac{3}{7}$ to an improper fraction.

- A. $\frac{24}{7}$ B. $\frac{28}{7}$
C. $\frac{31}{7}$ D. $\frac{35}{7}$

Solution

$$4\frac{3}{7} = \frac{4(7) + 3}{7}$$

$$= \frac{28 + 3}{7} = \frac{31}{7}$$

Final Answer $\frac{31}{7}$ — Option C**MCQ 11**Which is greater: $\frac{5}{8}$ or $\frac{3}{4}$?

- A. $\frac{5}{8}$ B. $\frac{3}{4}$
C. Equal D. Cannot be compared

Solution

$$\frac{5}{8} = \frac{5}{8}$$

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{6}{8} > \frac{5}{8}$$

Final Answer $\frac{3}{4}$ — Option B**MCQ 12**

Which is the smallest fraction?

- A. $\frac{2}{3}$ B. $\frac{3}{5}$
C. $\frac{5}{8}$ D. $\frac{7}{10}$

Solution

$$\frac{2}{3} \approx 0.667$$

$$\frac{3}{5} = 0.6$$

$$\frac{5}{8} = 0.625$$

$$\frac{7}{10} = 0.7$$

0.6 is smallest

Final Answer $\frac{3}{5}$ — Option B

MCQ 13

Which is the greatest fraction?

A. $\frac{7}{12}$

B. $\frac{5}{8}$

C. $\frac{2}{3}$

D. $\frac{3}{5}$

Solution

$$\frac{7}{12} \approx 0.583$$

$$\frac{5}{8} = 0.625$$

$$\frac{2}{3} \approx 0.667$$

$$\frac{3}{5} = 0.6$$

Final Answer

$\frac{2}{3}$

— Option C

MCQ 14Which fraction lies between $\frac{1}{3}$ and $\frac{1}{2}$?

A. $\frac{1}{4}$

B. $\frac{5}{12}$

C. $\frac{1}{12}$

D. $\frac{2}{3}$

Solution

$$\frac{1}{3} = \frac{4}{12}$$

$$\frac{1}{2} = \frac{6}{12}$$

$$\frac{4}{12} < \frac{5}{12} < \frac{6}{12}$$

Final Answer

$\frac{5}{12}$

— Option B

MCQ 15

Write 0.75 as a fraction in lowest terms.

A. $\frac{1}{2}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{4}{5}$

Solution

$$0.75 = \frac{75}{100}$$

$$= \frac{75 \div 25}{100 \div 25} = \frac{3}{4}$$

Final Answer

$\frac{3}{4}$

— Option C

MCQ 16

Write 0.125 as a fraction in lowest terms.

A. $\frac{1}{8}$

B. $\frac{1}{6}$

C. $\frac{1}{5}$

D. $\frac{1}{4}$

Solution

$$0.125 = \frac{125}{1000}$$

$$= \frac{1}{8}$$

Final Answer

$\frac{1}{8}$

— Option A

MCQ 17

Write 0.375 as a fraction in lowest terms.

A. $\frac{1}{4}$

B. $\frac{3}{8}$

C. $\frac{2}{5}$

D. $\frac{5}{8}$

Solution

$$0.375 = \frac{375}{1000}$$

$$= \frac{3}{8}$$

Final Answer

$\frac{3}{8}$

— Option B

MCQ 18

Write 0.625 as a fraction in lowest terms.

A. $\frac{3}{8}$

B. $\frac{1}{2}$

C. $\frac{1}{8}$

D. $\frac{3}{4}$

Solution

$$0.625 = \frac{625}{1000}$$

$$= \frac{5}{8}$$

Final Answer

$\frac{5}{8}$

— Option C

MCQ 19

Write 1.25 as an improper fraction.

- A. $\frac{4}{5}$ B. $\frac{5}{4}$
 C. $\frac{6}{4}$ D. $\frac{7}{4}$

Solution

$$1.25 = \frac{125}{100}$$

$$= \frac{5}{4}$$

Final Answer
 $\frac{5}{4}$ — Option B
MCQ 20

Write 2.75 as an improper fraction.

- A. $\frac{9}{4}$ B. $\frac{10}{4}$
 C. $\frac{11}{4}$ D. $\frac{12}{4}$

Solution

$$2.75 = \frac{275}{100}$$

$$= \frac{11}{4}$$

Final Answer
 $\frac{11}{4}$ — Option C
MCQ 21Find $\frac{3}{4} + \frac{2}{5}$.

- A. $\frac{21}{20}$ B. $\frac{23}{20}$
 C. $\frac{25}{20}$ D. $\frac{27}{20}$

High-frequency one-paper addition pattern; values independently constructed.

Solution

$$\frac{3}{4} + \frac{2}{5} = \frac{15}{20} + \frac{8}{20}$$

$$= \frac{23}{20} = 1\frac{3}{20}$$

Final Answer
 $\frac{23}{20}$ — Option B
MCQ 22Find $\frac{5}{6} + \frac{7}{9}$.

- A. $\frac{25}{18}$ B. $\frac{27}{18}$
 C. $\frac{29}{18}$ D. $\frac{31}{18}$

Solution

$$\text{LCM}(6, 9) = 18$$

$$\frac{5}{6} = \frac{15}{18}, \quad \frac{7}{9} = \frac{14}{18}$$

$$\frac{15}{18} + \frac{14}{18} = \frac{29}{18}$$

Final Answer
 $\frac{29}{18}$ — Option C
MCQ 23Find $\frac{7}{8} + \frac{5}{12}$.

- A. $\frac{29}{24}$ B. $\frac{31}{24}$
 C. $\frac{33}{24}$ D. $\frac{35}{24}$

Solution

$$\text{LCM}(8, 12) = 24$$

$$\frac{7}{8} = \frac{21}{24}, \quad \frac{5}{12} = \frac{10}{24}$$

$$= \frac{31}{24}$$

Final Answer
 $\frac{31}{24}$ — Option B
MCQ 24Find $\frac{2}{3} + \frac{3}{10}$.

- A. $\frac{19}{30}$ B. $\frac{23}{30}$
 C. $\frac{29}{30}$ D. $\frac{31}{30}$

Solution

$$\frac{2}{3} = \frac{20}{30}$$

$$\frac{3}{10} = \frac{9}{30}$$

$$\frac{20}{30} + \frac{9}{30} = \frac{29}{30}$$

Final Answer
 $\frac{29}{30}$ — Option C

MCQ 25Find $\frac{11}{15} + \frac{2}{5}$.

A. $\frac{13}{15}$

B. $\frac{15}{15}$

C. $\frac{17}{15}$

D. $\frac{19}{15}$

Solution

$$\frac{2}{5} = \frac{6}{15}$$

$$\frac{11}{15} + \frac{6}{15} = \frac{17}{15}$$

Final Answer

$$\frac{17}{15} \text{ — Option C}$$

MCQ 26Find $\frac{7}{9} - \frac{1}{6}$.

A. $\frac{7}{18}$

B. $\frac{9}{18}$

C. $\frac{11}{18}$

D. $\frac{13}{18}$

Solution

$$\frac{7}{9} = \frac{14}{18}$$

$$\frac{1}{6} = \frac{3}{18}$$

$$\frac{14}{18} - \frac{3}{18} = \frac{11}{18}$$

Final Answer

$$\frac{11}{18} \text{ — Option C}$$

MCQ 27Find $\frac{5}{8} - \frac{1}{3}$.

A. $\frac{5}{24}$

B. $\frac{7}{24}$

C. $\frac{9}{24}$

D. $\frac{11}{24}$

Solution

$$\frac{5}{8} = \frac{15}{24}$$

$$\frac{1}{3} = \frac{8}{24}$$

$$\frac{15}{24} - \frac{8}{24} = \frac{7}{24}$$

Final Answer

$$\frac{7}{24} \text{ — Option B}$$

MCQ 28Find $\frac{13}{14} - \frac{3}{7}$.

A. $\frac{3}{7}$

B. $\frac{1}{2}$

C. $\frac{4}{7}$

D. $\frac{5}{7}$

Solution

$$\frac{3}{7} = \frac{6}{14}$$

$$\frac{13}{14} - \frac{6}{14} = \frac{7}{14} = \frac{1}{2}$$

Final Answer

$$\frac{1}{2} \text{ — Option B}$$

MCQ 29Find $\frac{4}{5} - \frac{7}{20}$.

A. $\frac{7}{20}$

B. $\frac{9}{20}$

C. $\frac{11}{20}$

D. $\frac{13}{20}$

Solution

$$\frac{4}{5} = \frac{16}{20}$$

$$\frac{16}{20} - \frac{7}{20} = \frac{9}{20}$$

Final Answer

$$\frac{9}{20} \text{ — Option B}$$

MCQ 30Find $1\frac{1}{2} + 2\frac{2}{3}$.

A. $3\frac{5}{6}$

B. $4\frac{1}{6}$

C. $4\frac{1}{3}$

D. $4\frac{5}{6}$

Solution

$$1\frac{1}{2} = \frac{3}{2}, \quad 2\frac{2}{3} = \frac{8}{3}$$

$$\frac{3}{2} + \frac{8}{3} = \frac{9}{6} + \frac{16}{6} = \frac{25}{6}$$

$$\frac{25}{6} = 4\frac{1}{6}$$

Final Answer

$$4\frac{1}{6} \text{ — Option B}$$

MCQ 31Find $3\frac{3}{4} - 1\frac{5}{8}$.

A. $1\frac{7}{8}$

B. $2\frac{1}{8}$

C. $2\frac{3}{8}$

D. $2\frac{5}{8}$

Solution

$$3\frac{3}{4} = \frac{15}{4} = \frac{30}{8}$$

$$1\frac{5}{8} = \frac{13}{8}$$

$$\frac{30}{8} - \frac{13}{8} = \frac{17}{8} = 2\frac{1}{8}$$

Final Answer

$$2\frac{1}{8} \text{ — Option B}$$

MCQ 32Find $2 - \frac{7}{12}$.

A. $1\frac{3}{12}$

B. $1\frac{5}{12}$

C. $1\frac{7}{12}$

D. $1\frac{9}{12}$

Solution

$$2 = \frac{24}{12}$$

$$\frac{24}{12} - \frac{7}{12} = \frac{17}{12} = 1\frac{5}{12}$$

Final Answer

$$1\frac{5}{12} \text{ — Option B}$$

MCQ 33Find $\frac{5}{6} + \frac{1}{4} - \frac{1}{3}$.

A. $\frac{7}{12}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{5}{6}$

Solution

$$\frac{5}{6} = \frac{10}{12}, \quad \frac{1}{4} = \frac{3}{12}, \quad \frac{1}{3} = \frac{4}{12}$$

$$\frac{10 + 3 - 4}{12} = \frac{9}{12} = \frac{3}{4}$$

Final Answer

$$\frac{3}{4} \text{ — Option C}$$

MCQ 34Find $\frac{7}{10} - \frac{1}{5} + \frac{3}{20}$.

A. $\frac{9}{20}$

B. $\frac{11}{20}$

C. $\frac{13}{20}$

D. $\frac{15}{20}$

Solution

$$\frac{7}{10} = \frac{14}{20}, \quad \frac{1}{5} = \frac{4}{20}$$

$$\frac{14 - 4 + 3}{20} = \frac{13}{20}$$

Final Answer

$$\frac{13}{20} \text{ — Option C}$$

MCQ 35Find $\frac{1}{2} + \frac{1}{3}$.

A. $\frac{2}{3}$

B. $\frac{3}{4}$

C. $\frac{5}{6}$

D. 1

Solution

$$\frac{1}{2} = \frac{3}{6}, \quad \frac{1}{3} = \frac{2}{6}$$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Final Answer

$$\frac{5}{6} \text{ — Option C}$$

MCQ 36Find $\frac{3}{5} \times \frac{10}{21}$.

A. $\frac{1}{7}$

B. $\frac{2}{7}$

C. $\frac{3}{7}$

D. $\frac{4}{7}$

Solution

$$\frac{3}{5} \times \frac{10}{21}$$

$$= \frac{3 \times 2}{1 \times 21}$$

$$= \frac{6}{21} = \frac{2}{7}$$

Final Answer

$$\frac{2}{7} \text{ — Option B}$$

MCQ 37Find $\frac{7}{12} \times \frac{18}{35}$.

A. $\frac{1}{5}$
C. $\frac{2}{5}$

B. $\frac{3}{10}$
D. $\frac{1}{2}$

Solution

$$\begin{aligned}\frac{7}{12} \times \frac{18}{35} \\ \frac{7}{35} = \frac{1}{5}, \quad \frac{18}{12} = \frac{3}{2} \\ = \frac{3}{10}\end{aligned}$$

Final Answer

$\frac{3}{10}$ — Option B

MCQ 38Find $\frac{9}{14} \times \frac{7}{27}$.

A. $\frac{1}{6}$
C. $\frac{1}{4}$

B. $\frac{1}{5}$
D. $\frac{1}{3}$

Solution

$$\begin{aligned}\frac{9}{14} \times \frac{7}{27} \\ \frac{7}{14} = \frac{1}{2}, \quad \frac{9}{27} = \frac{1}{3} \\ = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}\end{aligned}$$

Final Answer

$\frac{1}{6}$ — Option A

MCQ 39Find $\frac{5}{8} \times \frac{16}{25}$.

A. $\frac{1}{5}$
C. $\frac{3}{5}$

B. $\frac{2}{5}$
D. $\frac{4}{5}$

Solution

$$\begin{aligned}\frac{5}{8} \times \frac{16}{25} \\ \frac{16}{8} = 2, \quad \frac{5}{25} = \frac{1}{5} \\ = \frac{2}{5}\end{aligned}$$

Final Answer

$\frac{2}{5}$ — Option B

MCQ 40Find $\frac{11}{15} \times \frac{9}{22}$.

A. $\frac{1}{5}$
C. $\frac{2}{5}$

B. $\frac{3}{10}$
D. $\frac{1}{2}$

Solution

$$\begin{aligned}\frac{11}{22} = \frac{1}{2}, \quad \frac{9}{15} = \frac{3}{5} \\ = \frac{1}{2} \times \frac{3}{5} = \frac{3}{10}\end{aligned}$$

Final Answer

$\frac{3}{10}$ — Option B

MCQ 41Find $\frac{3}{4} \div \frac{2}{5}$.

A. $\frac{6}{5}$
C. $\frac{8}{5}$

B. $\frac{15}{8}$
D. $\frac{10}{3}$

Core reciprocal-division pattern used across one-paper arithmetic.

Solution

$$\begin{aligned}\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} \\ = \frac{15}{8}\end{aligned}$$

Final Answer

$\frac{15}{8}$ — Option B

MCQ 42Find $\frac{7}{9} \div \frac{14}{27}$.

A. $\frac{4}{3}$
C. $\frac{5}{3}$

B. $\frac{3}{2}$
D. 2

Solution

$$\begin{aligned}\frac{7}{9} \times \frac{27}{14} \\ \frac{27}{9} = 3, \quad \frac{7}{14} = \frac{1}{2} \\ = \frac{3}{2}\end{aligned}$$

Final Answer

$\frac{3}{2}$ — Option B

MCQ 43Find $\frac{5}{6} \div \frac{25}{18}$.A. $\frac{2}{5}$ B. $\frac{3}{5}$ C. $\frac{4}{5}$ D. $\frac{5}{6}$ **Solution**

$$\begin{aligned}\frac{5}{6} \times \frac{18}{25} \\ \frac{18}{6} = 3, \quad \frac{5}{25} = \frac{1}{5} \\ = \frac{3}{5}\end{aligned}$$

Final Answer $\frac{3}{5}$ — Option B**MCQ 44**Find $\frac{8}{15} \div \frac{4}{25}$.A. $\frac{5}{3}$ B. $\frac{10}{3}$ C. $\frac{15}{4}$ D. $\frac{20}{3}$ **Solution**

$$\begin{aligned}\frac{8}{15} \times \frac{25}{4} \\ \frac{8}{4} = 2, \quad \frac{25}{15} = \frac{5}{3} \\ = 2 \times \frac{5}{3} = \frac{10}{3}\end{aligned}$$

Final Answer $\frac{10}{3}$ — Option B**MCQ 45**Find $1\frac{1}{2} \times 2\frac{2}{3}$.

A. 3

B. 4

C. 5

D. 6

Solution

$$\begin{aligned}1\frac{1}{2} = \frac{3}{2}, \quad 2\frac{2}{3} = \frac{8}{3} \\ \frac{3}{2} \times \frac{8}{3} = \frac{24}{6} = 4\end{aligned}$$

Final Answer

4 — Option B

MCQ 46Find $3\frac{1}{5} \div 1\frac{3}{5}$.A. $\frac{3}{2}$

B. 2

C. $\frac{5}{2}$

D. 3

Solution

$$\begin{aligned}3\frac{1}{5} = \frac{16}{5}, \quad 1\frac{3}{5} = \frac{8}{5} \\ \frac{16}{5} \div \frac{8}{5} = \frac{16}{5} \times \frac{5}{8} \\ = \frac{16}{8} = 2\end{aligned}$$

Final Answer

2 — Option B

MCQ 47What is the reciprocal of $\frac{7}{12}$?A. $\frac{7}{12}$ B. $\frac{12}{7}$ C. $-\frac{7}{12}$ D. $-\frac{12}{7}$ **Solution**

$$\frac{7}{12} \times \frac{12}{7} = 1$$

Final Answer $\frac{12}{7}$ — Option B**MCQ 48**What is the reciprocal of $2\frac{1}{4}$?A. $\frac{9}{4}$ B. $\frac{4}{9}$ C. $\frac{5}{4}$ D. $\frac{4}{5}$ **Solution**

$$2\frac{1}{4} = \frac{9}{4}$$

$$\text{Reciprocal} = \frac{4}{9}$$

Final Answer $\frac{4}{9}$ — Option B

MCQ 49For nonzero $\frac{a}{b}$, what is $\frac{a}{b} \times \frac{b}{a}$?

- A. 0
 B. 1
 C. $\frac{a^2}{b^2}$
 D. $\frac{b^2}{a^2}$

Solution

$$\frac{a}{b} \times \frac{b}{a} = \frac{ab}{ab} = 1$$

Final Answer

1 — Option B

MCQ 50Find $\frac{3}{4} \times \frac{2}{3} \div \frac{1}{2}$.

- A. $\frac{1}{2}$
 B. 1
 C. $\frac{3}{2}$
 D. 2

Solution

$$\frac{3}{4} \times \frac{2}{3} = \frac{1}{2}$$

$$\frac{1}{2} \div \frac{1}{2} = \frac{1}{2} \times \frac{2}{1} = 1$$

Final Answer

1 — Option B

MCQ 51Find $\frac{3}{5}$ of 250.

- A. 100
 B. 125
 C. 150
 D. 175

Very common basic-arithmetic one-paper pattern.

Solution

$$\frac{3}{5} \times 250$$

$$= 3 \times 50 = 150$$

Final Answer

150 — Option C

MCQ 52Find $\frac{7}{8}$ of 320.

- A. 240
 B. 260
 C. 280
 D. 300

Solution

$$\frac{7}{8} \times 320 = 7 \times 40 = 280$$

Final Answer

280 — Option C

MCQ 53If $\frac{2}{3}$ of a number is 48, find the number.

- A. 64
 B. 72
 C. 84
 D. 96

Solution

$$\frac{2}{3}x = 48$$

$$x = 48 \times \frac{3}{2} = 72$$

Final Answer

72 — Option B

MCQ 54If $\frac{5}{12}$ of a number is 75, find the number.

- A. 150
 B. 160
 C. 180
 D. 200

Solution

$$\frac{5}{12}x = 75$$

$$x = 75 \times \frac{12}{5} = 15 \times 12 = 180$$

Final Answer

180 — Option C

MCQ 55A person spends $\frac{3}{8}$ of Rs. 640. How much remains?

- A. Rs. 240
 B. Rs. 320
 C. Rs. 400
 D. Rs. 480

Solution

$$\text{Spent} = \frac{3}{8}(640) = 3(80) = 240$$

$$\text{Remaining} = 640 - 240 = 400$$

Final Answer

Rs. 400 — Option C

MCQ 56In a class of 45 students, $\frac{2}{5}$ are girls. How many girls are there?

- A. 15
 B. 18
 C. 20
 D. 27

Solution

$$\frac{2}{5}(45) = 2(9) = 18$$

Final Answer

18 — Option B

MCQ 57

A tank of capacity 240 litres is $\frac{3}{4}$ full. How much water is in it?

- A. 160 L B. 180 L
C. 200 L D. 220 L

Solution

$$\frac{3}{4}(240) = 3(60) = 180$$

Final Answer

180 L — Option B

MCQ 58

A book has 270 pages. A student reads $\frac{5}{9}$ of it. How many pages remain?

- A. 100 B. 110
C. 120 D. 150

Solution

$$\text{Read} = \frac{5}{9}(270) = 5(30) = 150$$

$$\text{Remain} = 270 - 150 = 120$$

Final Answer

120 — Option C

MCQ 59

Find one-third of one-half of 180.

- A. 20 B. 30
C. 40 D. 60

Solution

$$\begin{aligned} & \frac{1}{3} \times \frac{1}{2} \times 180 \\ &= \frac{1}{6}(180) = 30 \end{aligned}$$

Final Answer

30 — Option B

MCQ 60

Find $\frac{2}{5}$ of $\frac{3}{4}$ of 200.

- A. 40 B. 50
C. 60 D. 80

Solution

$$\begin{aligned} & \frac{2}{5} \times \frac{3}{4} \times 200 \\ &= \frac{6}{20}(200) = 60 \end{aligned}$$

Final Answer

60 — Option C

MCQ 61

If $\frac{3}{7}$ of a salary is Rs. 21,000, find the salary.

- A. Rs. 42,000 B. Rs. 45,000
C. Rs. 49,000 D. Rs. 56,000

Solution

$$\frac{3}{7}S = 21000$$

$$S = 21000 \times \frac{7}{3}$$

$$= 7000(7) = 49000$$

Final Answer

Rs. 49,000 — Option C

MCQ 62

If $\frac{4}{9}$ of a group is 36, find the total number in the group.

- A. 72 B. 81
C. 90 D. 96

Solution

$$\frac{4}{9}N = 36$$

$$N = 36 \times \frac{9}{4} = 9(9) = 81$$

Final Answer

81 — Option B

MCQ 63

A person spends $\frac{2}{5}$ of income on food and $\frac{1}{4}$ on rent. What fraction remains?

- A. $\frac{3}{20}$ B. $\frac{5}{20}$
C. $\frac{7}{20}$ D. $\frac{9}{20}$

Solution

$$\begin{aligned} & 1 - \frac{2}{5} - \frac{1}{4} \\ &= \frac{20}{20} - \frac{8}{20} - \frac{5}{20} \\ &= \frac{7}{20} \end{aligned}$$

Final Answer $\frac{7}{20}$ — Option C

MCQ 64

A sum is divided: $\frac{1}{3}$ to A and $\frac{1}{4}$ to B. What fraction remains?

- A. $\frac{5}{12}$ B. $\frac{7}{12}$
 C. $\frac{2}{3}$ D. $\frac{3}{4}$

Solution

$$1 - \frac{1}{3} - \frac{1}{4} = \frac{12 - 4 - 3}{12} = \frac{5}{12}$$

Final Answer

$\frac{5}{12}$

 — Option A
MCQ 65

$\frac{7}{12}$ of a 96-km road is complete. How many kilometres remain?

- A. 32 B. 36
 C. 40 D. 56

Solution

$$\text{Remaining fraction} = 1 - \frac{7}{12} = \frac{5}{12}$$

$$\frac{5}{12}(96) = 5(8) = 40$$

Final Answer

40 km

 — Option C
MCQ 66

$\frac{3}{5}$ of a number plus 20 equals 80. Find the number.

- A. 80 B. 90
 C. 100 D. 120

Solution

$$\frac{3}{5}x + 20 = 80$$

$$\frac{3}{5}x = 60$$

$$x = 60 \times \frac{5}{3} = 100$$

Final Answer

100

 — Option C
MCQ 67

One-half of a number is 15 more than one-fourth of it. Find the number.

- A. 45 B. 60
 C. 75 D. 90

Solution

$$\frac{1}{2}x - \frac{1}{4}x = 15$$

$$\frac{1}{4}x = 15$$

$$x = 60$$

Final Answer

60

 — Option B
MCQ 68

Two-thirds of a number is 24 more than one-third of it. Find the number.

- A. 48 B. 60
 C. 72 D. 84

Solution

$$\frac{2}{3}x - \frac{1}{3}x = 24$$

$$\frac{1}{3}x = 24$$

$$x = 72$$

Final Answer

72

 — Option C
MCQ 69

If $\frac{5}{8}$ of a number is 45, find the number.

- A. 64 B. 72
 C. 80 D. 90

Solution

$$\frac{5}{8}x = 45$$

$$x = 45 \times \frac{8}{5} = 9(8) = 72$$

Final Answer

72

 — Option B

MCQ 70

If $\frac{3}{4}$ of the students pass and 15 fail, how many students are there?

- A. 45 B. 50
C. 60 D. 75

Solution

$$\text{Failed fraction} = 1 - \frac{3}{4} = \frac{1}{4}$$

$$\frac{1}{4}N = 15$$

$$N = 60$$

Final Answer**60** — Option C**MCQ 71**

Find $0.75 + 1.25$.

- A. 1.50 B. 1.75
C. 2.00 D. 2.25

Basic decimal-operation pattern used in quantitative sections.

Solution

$$0.75 + 1.25 = 2.00$$

Final Answer**2.00** — Option C**MCQ 72**

Find $3.6 - 1.785$.

- A. 1.715 B. 1.815
C. 1.915 D. 2.815

Solution

$$3.600 - 1.785 = 1.815$$

Final Answer**1.815** — Option B**MCQ 73**

Find 2.5×0.4 .

- A. 0.1 B. 0.5
C. 1.0 D. 10

Solution

$$\begin{aligned} 2.5 \times 0.4 &= \frac{25}{10} \times \frac{4}{10} \\ &= \frac{100}{100} = 1 \end{aligned}$$

Final Answer**1** — Option C**MCQ 74**

Find $0.84 \div 0.07$.

- A. 1.2 B. 8
C. 12 D. 120

Solution

$$\begin{aligned} 0.84 \div 0.07 &= \frac{84}{100} \div \frac{7}{100} \\ &= \frac{84}{7} = 12 \end{aligned}$$

Final Answer**12** — Option C**MCQ 75**

Find $12.6 \div 0.3$.

- A. 4.2 B. 21
C. 42 D. 420

Solution

$$12.6 \div 0.3 = 126 \div 3 = 42$$

Final Answer**42** — Option C**MCQ 76**

Find 0.125×80 .

- A. 1 B. 5
C. 10 D. 12.5

Solution

$$\begin{aligned} 0.125 &= \frac{1}{8} \\ \frac{1}{8}(80) &= 10 \end{aligned}$$

Final Answer**10** — Option C**MCQ 77**

Find 4.8×2.5 .

- A. 10 B. 12
C. 14 D. 16

Solution

$$\begin{aligned} 4.8 \times 2.5 &= 4.8 \times \frac{5}{2} \\ &= 2.4(5) = 12 \end{aligned}$$

Final Answer**12** — Option B

MCQ 78Find $7.2 \div 0.09$.

- A. 8 B. 80
C. 90 D. 800

Solution

$$7.2 \div 0.09 = \frac{720}{100} \div \frac{9}{100}$$

$$= \frac{720}{9} = 80$$

Final Answer**80** — Option B**MCQ 79**Find $0.6 + 0.06 + 0.006$.

- A. 0.0666 B. 0.606
C. 0.660 D. 0.666

Solution

$$0.600 + 0.060 + 0.006 = 0.666$$

Final Answer**0.666** — Option D**MCQ 80**Find $5 - 2.375$.

- A. 2.525 B. 2.625
C. 2.725 D. 3.625

Solution

$$5.000 - 2.375 = 2.625$$

Final Answer**2.625** — Option B**MCQ 81**

What is the place value of digit 7 in 43.728?

- A. 7 B. 0.7
C. 0.07 D. 0.007

Solution

$$43.728 = 4(10) + 3 + 7(0.1) + 2(0.01) + 8(0.001)$$

Place value = 0.7

Final Answer**0.7** — Option B**MCQ 82**

What is the place value of digit 5 in 0.0542?

- A. 0.5 B. 0.05
C. 0.005 D. 0.0005

Solution

$$0.0542 = 5(0.01) + 4(0.001) + 2(0.0001)$$

Place value = 0.05

Final Answer**0.05** — Option B**MCQ 83**

Compare 0.7 and 0.70.

- A. $0.7 > 0.70$ B. $0.7 < 0.70$
C. $0.7 = 0.70$ D. Cannot compare

Solution

$$0.7 = \frac{7}{10} = \frac{70}{100} = 0.70$$

Final Answer **$0.7 = 0.70$** — Option C**MCQ 84**

Which is the greatest decimal?

- A. 0.56 B. 0.506
C. 0.65 D. 0.605

Solution

0.560, 0.506, 0.650, 0.605

0.650 is greatest

Final Answer**0.65** — Option C**MCQ 85**

Which is the smallest decimal?

- A. 0.09 B. 0.9
C. 0.099 D. 0.909

Solution

0.090, 0.900, 0.099, 0.909

0.090 is smallest

Final Answer**0.09** — Option A

MCQ 86

Convert 0.48 to a fraction in lowest terms.

- A. $\frac{6}{25}$ B. $\frac{12}{25}$
 C. $\frac{24}{25}$ D. $\frac{48}{25}$

Solution

$$\begin{aligned} 0.48 &= \frac{48}{100} \\ &= \frac{12}{25} \end{aligned}$$

Final Answer

$$\boxed{\frac{12}{25}} \text{ — Option B}$$

MCQ 87

Convert 0.72 to a fraction in lowest terms.

- A. $\frac{9}{25}$ B. $\frac{18}{25}$
 C. $\frac{36}{25}$ D. $\frac{72}{25}$

Solution

$$\begin{aligned} 0.72 &= \frac{72}{100} \\ &= \frac{18}{25} \end{aligned}$$

Final Answer

$$\boxed{\frac{18}{25}} \text{ — Option B}$$

MCQ 88

Convert 0.045 to a fraction in lowest terms.

- A. $\frac{9}{100}$ B. $\frac{9}{200}$
 C. $\frac{45}{200}$ D. $\frac{1}{20}$

Solution

$$\begin{aligned} 0.045 &= \frac{45}{1000} \\ &= \frac{9}{200} \end{aligned}$$

Final Answer

$$\boxed{\frac{9}{200}} \text{ — Option B}$$

MCQ 89

Convert 1.375 to an improper fraction.

- A. $\frac{9}{8}$ B. $\frac{10}{8}$
 C. $\frac{11}{8}$ D. $\frac{13}{8}$

Solution

$$\begin{aligned} 1.375 &= \frac{1375}{1000} \\ &= \frac{11}{8} \end{aligned}$$

Final Answer

$$\boxed{\frac{11}{8}} \text{ — Option C}$$

MCQ 90

Convert 2.625 to an improper fraction.

- A. $\frac{19}{8}$ B. $\frac{20}{8}$
 C. $\frac{21}{8}$ D. $\frac{23}{8}$

Solution

$$\begin{aligned} 2.625 &= \frac{2625}{1000} \\ &= \frac{21}{8} \end{aligned}$$

Final Answer

$$\boxed{\frac{21}{8}} \text{ — Option C}$$

MCQ 91Convert $0.\bar{3}$ to a fraction.

- A. $\frac{1}{3}$ B. $\frac{2}{3}$
 C. $\frac{3}{10}$ D. $\frac{1}{30}$

Recurring-decimal pattern included for fast number-sense preparation.

Solution

$$\begin{aligned} x &= 0.333 \dots \\ 10x &= 3.333 \dots \\ 10x - x &= 3 \\ 9x &= 3 \\ x &= \frac{1}{3} \end{aligned}$$

Final Answer

$$\boxed{\frac{1}{3}} \text{ — Option A}$$

MCQ 92Convert $0.\overline{6}$ to a fraction.

- A. $\frac{1}{3}$ B. $\frac{1}{2}$
 C. $\frac{2}{3}$ D. $\frac{3}{4}$

Solution

$$x = 0.666 \dots$$

$$10x = 6.666 \dots$$

$$9x = 6$$

$$x = \frac{6}{9} = \frac{2}{3}$$

Final Answer
 $\frac{2}{3}$ — Option C
MCQ 95Convert $0.\overline{09}$ to a fraction.

- A. $\frac{1}{11}$ B. $\frac{1}{10}$
 C. $\frac{9}{100}$ D. $\frac{9}{11}$

Solution

$$x = 0.090909 \dots$$

$$100x = 9.090909 \dots$$

$$99x = 9$$

$$x = \frac{9}{99} = \frac{1}{11}$$

Final Answer
 $\frac{1}{11}$ — Option A
MCQ 93Convert $0.\overline{27}$ to a fraction.

- A. $\frac{2}{11}$ B. $\frac{3}{11}$
 C. $\frac{4}{11}$ D. $\frac{27}{100}$

Solution

$$x = 0.272727 \dots$$

$$100x = 27.272727 \dots$$

$$99x = 27$$

$$x = \frac{27}{99} = \frac{3}{11}$$

Final Answer
 $\frac{3}{11}$ — Option B
MCQ 96Write $\frac{7}{20}$ as a decimal.

- A. 0.25 B. 0.30
 C. 0.35 D. 0.40

Solution

$$\frac{7}{20} = \frac{7 \times 5}{20 \times 5} = \frac{35}{100} = 0.35$$

Final Answer
 0.35 — Option C
MCQ 97Write $\frac{11}{16}$ as a decimal.

- A. 0.625 B. 0.675
 C. 0.6875 D. 0.687

Solution

$$\frac{11}{16} = 11 \div 16$$

$$= 0.6875$$

Final Answer
 0.6875 — Option C
MCQ 94Convert $0.1666 \dots$ to a fraction.

- A. $\frac{1}{6}$ B. $\frac{1}{5}$
 C. $\frac{1}{4}$ D. $\frac{1}{3}$

Solution

$$x = 0.1666 \dots$$

$$10x = 1.666 \dots$$

$$100x = 16.666 \dots$$

$$100x - 10x = 15$$

$$90x = 15$$

$$x = \frac{15}{90} = \frac{1}{6}$$

Final Answer
 $\frac{1}{6}$ — Option A
MCQ 98Write $\frac{3}{25}$ as a decimal.

- A. 0.012 B. 0.12
 C. 0.30 D. 1.2

Solution

$$\frac{3}{25} = \frac{3 \times 4}{25 \times 4} = \frac{12}{100} = 0.12$$

Final Answer
 0.12 — Option B

MCQ 99Find $0.4 + \frac{3}{5}$.**A.** 0.8**B.** 0.9**C.** 1.0**D.** 1.2**Solution**

$$0.4 = \frac{2}{5}$$

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

Final Answer**1.0** — Option C**MCQ 100**Find $0.75 \div \frac{3}{8}$.**A.** 1**B.** 1.5**C.** 2**D.** 2.5**Solution**

$$0.75 = \frac{3}{4}$$

$$\frac{3}{4} \div \frac{3}{8} = \frac{3}{4} \times \frac{8}{3}$$

$$= \frac{8}{4} = 2$$

Final Answer**2** — Option C

Fractions & Decimals - Rapid Revision Grid**Mixed / improper**

$$a\frac{b}{c} = \frac{ab+c}{c}$$

$$\frac{17}{5} = 3\frac{2}{5}$$

Fraction of a quantity

$$\frac{a}{b} \text{ of } N = \frac{a}{b}N$$

Decimal division Move the decimal point equally in divisor and dividend until the divisor is an integer.

$$0.84 \div 0.07 = 84 \div 7 = 12$$

Recurring decimal If $x = 0.\bar{a}$, then

$$10x - x = a$$

For a two-digit recurring block, use $100x - x$.