4. DECIMALS

Class: VII, MATHEMATICS

INTEGRATED + SOLUTIONS

TECHING TASK JEE MAINS

2025 | 26

01. $1.425 + 7.38 = 8.805$ Ans: A

02 $\frac{0.75}{0.5} = \frac{75}{50} = \frac{15}{10} = 1.5$ Ans: A

03 $2.7 - (0.9 + 1.3)$
$= 2.7 - 2.2$
$= 0.5$ Ans: B

04 $0.625 = \frac{625}{1000} = \frac{25}{40} = \frac{5}{8}$ Ans: A

05 $1.2 \times (0.6 + 0.3)$
$= 1.2 \times 6.9$
$= 1.08$ Ans: B

06 $1.2 - 0.95 = 0.25$ Ans: A

07 $\frac{57}{100} = 0.57$ Ans: C

08 $1.63 \times 6.3 = 10.269$ Ans: ~~E~~

09 $\frac{1}{8} = 0.125$ (2) Ans. B

10 21.114
14.280
6.839 Ans. C

11 $\frac{1}{3600} = 0.00027$ Ans. A

12 $\frac{36}{100} = \frac{9}{25}$; Ans. 25 − 9 = 16 Ans. C

13 0.002430 Ans. C

14 Speed = $\frac{\text{Distance}}{\text{time}}$

$\Rightarrow 45.8 = \frac{\text{Distance}}{6} \Rightarrow$ Distance = 45.8 × 6
= 274.8 km
Ans. C

$\Rightarrow$

15 0.0024 Ans. C

ADVANCED LEVEL

01 $3.1416 = 3.1416 \times 10^{0}$
$= 31.416 \times 10^{-1}$
$= 314.16 \times 10^{-2}$ Ans. A

02 Options: B, C, D satisfies Ans. B, C, D

03. $0.3 + 0.03 = 0.33$ Ans. A

04 $1.25 - 0.75 = 0.50$ Ans. A

05 Conceptual Ans. C

06 Conceptual (3) Ans: A

07 Statement I: $12.78 \sim 12.8$ (True)
Statement II: Conceptual (True) Ans. A

08 Statement I: Conceptual (True)
Statement II: Conceptual (True) Ans. A

09 $15.239 \approx 15$ Ans: 15

10 ~~49×10^8~~ 4.9×10^9 Ans: 9

11 0.7×0.25
$= 0.175$ Ans. 0

12 $2.\overline{3} = \frac{23-2}{9} = \frac{21}{9} = \frac{7}{3} \Rightarrow 7+3=10$ Ans. 10

13 a) $3.1416 \sim 3.14$ (R)
b) 0.0007895 (Q)
c) 0.625 (P)
d) $\frac{85}{100} = \frac{17}{20}$ (S) Ans: R, Q, P, S

14 a) 23.758 (T)
b) $827.7973 \ldots$ (P)
c) $573.636363 \ldots$ (S)
d) 2 (R) Ans: T, P, S, R

LEARNER'S TASK (CULS) (4)

01 0.2 Ans: A

02 0.25 Ans: C

03 0.6 + 0.45 = 1.05 Ans: A

04 Conceptual Ans: C

05 0.75 Ans: D

06 75.75×0.2554

$= \frac{7575}{100} \times \frac{2554}{10000}$

$= 19.\underbrace{34655}_{5 \text{ digits}}$ Ans: C

07 $\frac{25}{0.0005} = \frac{25}{\left(\frac{5}{10000}\right)} = 50000$ Ans: D

08 $\frac{40}{1000} = 0.04$ Ans: B

09 $32.35 = \frac{3235}{100}$ Ans: A

10 $400 + 20 + 1 + 0.2 + 0.03 + 0.005$

$= 421.235$ Ans: A

11 22.49 Ans: B

12 $\frac{0.0098}{0.28} = \frac{0.0098}{0.2800} = \frac{98}{2800} = 0.035$ Ans: D

13 options: B, C, D are terminating decimals Ans: B, C, D

JEE MAINS LEVEL

01 $9275\ m = \frac{9275}{1000}\ Km = 9.275\ Km$ Ans: D

02 $9\frac{7}{20} = \frac{187}{20} \times \frac{5}{5} = \frac{935}{100} = 9.35$ Ans: D

03 $\frac{0.46 - 0.046}{0.046 \div 4.6} = \frac{0.414}{\left(\frac{0.046}{4.6}\right)} = \frac{0.414}{\left(\frac{1}{100}\right)}$

$= 41.4$ Ans: C

04 $5.4 + x = 20.9$

$x = 20.9 - 5.4 = 15.5$ Ans: A

05 603.656 Ans: B

06 $x \times 2.7 = 42.63$

$\Rightarrow x = \frac{42.63}{2.7} = 20.3$ Ans: C

07 $8 \times 3.35 = 26.80$ Ans: C

08 $218.99 + 109.85 = 328.84\ kg$ Ans: D

09 $39.45 - 28.47 = Rs\ 10.98$ Ans: B

10 22.02 Ans: C

11. $2.4x = 1.8 + 0.6 = 2.4$

$x = 1$ Ans: C

12 $0.3 \times 0.4 = 0.12$ Ans: A

13 $3x + 0.2 = 1.1$

$\Rightarrow x = 0.3$

Ans. A

JEE ADVANCED LEVEL

01. $0.6 \times 0.4 + 0.25 = 0.24 + 0.25$

$= 0.49$

$= \frac{49}{100}$

Ans: B, C

02 Options A, C are in Scientific notation

Ans. A, C

03 $3.5 = 3.50$; 0.67; $15.6 = 15.60$; 40.00

Ans: B

04 Total volume $= 1.25 + 0.75 + 0.5$

$= 2.50$ cups

Ans D

05 $2 \times 0.25 = 0.5$ teaspoons

Ans. B

06 0.8 of the total mixture

Ans: B

07 Statement I: $1.2 + 0.75 = 1.95$ (True)

Statement II: Conceptual (True)

Ans. A

08 $0.65 + 0.35 = 1$

Ans. 1

09 $\frac{129.5}{18.5} = 7$

Ans. 7

10 $0.6 \times 0.4 = 0.24 = \frac{24}{100} = \frac{6}{25} = \frac{p}{q}$ (7)

~~$\therefore 100e + 24 = 124$~~

$p + q = 6 + 25 = 31$

Ans: ~~129~~ 31

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11 a) 2206.8 (γ)

b) 277.777 (P)

c) 2.5375 (S)

d) 543.73 (9)

Ans: γ, P, S, 9

$\Longrightarrow$ THE END $\in$