

INTEGRATED⁺

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Class: VI, MATHEMATICS

3. DECIMALS

TEACHING TASK (JEE MAINS)

$$\begin{array}{r} 01. \quad 1.425 \\ + 7.38 \\ \hline 8.805 \end{array}$$

Ans: A

$$02. \quad \frac{50}{100} = \frac{1}{2} = 0.5$$

Ans: C

$$03. \quad \frac{1}{8} = 0.125$$

Ans: B

$$04. \quad 1.63 \times 6.3 = 10.269$$

Ans: C

$$\begin{array}{r} 05. \quad 21.114 \\ - 14.28 \\ \hline 6.834 \end{array}$$

Ans: C

$$\begin{aligned} 06. \quad 1 \text{ hour} &= 3600 \text{ seconds} \\ 1 \text{ second} &= \frac{1}{3600} \text{ of an hour} \\ &= 0.000277. \end{aligned}$$

Ans: A

$$07. \quad 0.36 = \frac{36}{100} = \frac{9}{25} \quad \therefore \text{Difference} = 25 - 9 = 16 \quad \text{Ans: C}$$

$$\begin{aligned} 08. \quad 3 \times 0.3 \times 0.03 \times 0.003 \times 30 \\ = 0.002430 = 0.00243 \end{aligned}$$

Ans: C

$$09. \quad 6 \times 45.8 = 274.8 \text{ km}$$

Ans: C

$$10. \quad 0.3 \times 0.008 = 0.0024$$

Ans: C



11.	$3.1416 = 3.1416 \times 10^0$ $= 314.16 \times 10^{-2}$ $= 31.416 \times 10^{-1}$	(2) Ans: A, B, C
12	9.546, 765.047, 87.349	Ans: B, C, D
13.	<u>Statement I</u> : 12-78 ~ 17.8 (True) <u>Statement II</u> : Conceptual (True)	Ans: A
14.	<u>Statement I</u> : Conceptual (True). <u>Statement II</u> : Conceptual (True)	Ans: A
15	<u>Assertion</u> : $0.6 = \frac{6}{10} = \frac{3}{5}$ (True) <u>Reason</u> : mathematically (True)	Ans: A
16	<u>Assertion</u> : Conceptual (True) <u>Reason</u> : Conceptual (True)	Ans: A
17.	Conceptual (63.694, 43.492)	Ans: C
18.	22.789 & 8.9	Ans: A
19	$7 \times 0.1 = 0.7$	Ans: A
20.	Thousands	Ans: C
21.	15	Ans: 15
22	$4900000000 = 49 \times 10^8 = 4.9 \times 10^9 \rightarrow$ In Scientific notation. The power of 10 = 9	Ans: 9
23	a) 3.14 (r) b) 7.895×10^{-4} $= \frac{7.895}{10000} = 0.0007895$ (g) c) $\frac{5}{8} = 0.625$ (p) d) $0.85 = \frac{85}{100} = \frac{17}{20}$ (s)	Ans: r, g, p, s

$$24 \text{ a) } \begin{array}{r} 20.000 \\ 3.000 \\ 0.7 \\ 0.05 \\ + 0.008 \\ \hline 23.758 \text{ (t)} \end{array}$$

$$\text{b) } 827.7973 \text{ (p)}$$

$$\text{c) } 573.636363 \dots \text{ (s)} \quad \textcircled{3}$$

$$\text{d) } \begin{array}{r} 14.62 \\ + 12.63 \\ \hline 27.25 \\ - 25.25 \\ \hline 2 \text{ (r)} \end{array}$$

Ans: t, p, s, r

LEARNERS TASK

Conceptual Understanding Questions (CUE'S)

01. a) Conceptual

Ans: C

$$02 \quad \frac{75}{100} = 0.75$$

Ans: D

$$03 \quad \begin{array}{c} 75.75 \times 0.2554 = \\ \underbrace{\quad\quad}_{2 \text{ digits}} \quad \underbrace{\quad\quad\quad}_{4 \text{ digits}} \quad \underbrace{\quad\quad\quad\quad}_{6 \text{ digits}} \end{array}$$

Ans: D

$$04. \quad \frac{25}{0.0005} = \frac{250000}{5} = 50000$$

Ans: D

$$05 \quad 40 \text{ ml} = \frac{40}{1000} \text{ lit} = 0.04$$

Ans: B

$$06 \quad 32.35 = \frac{3235}{100} =$$

Ans: A

$$07 \quad 400 + 20 + 1 + 0.2 + 0.03 + 0.005 \\ = 421.235$$

Ans: A

$$08 \quad 102 \times 0.22 = 22.44$$

Ans: B

$$09. \quad \frac{0.0098}{0.28} = 0.035$$

Ans: D

$$10. \quad 0.8666, 0.15$$

Ans: ~~A, B~~
D

JEEMAINS LEVEL

④

01. $9275 \text{ m} = \frac{9275}{1000} \text{ km} = 9.275 \text{ km}$ Ans D

02. $9\frac{7}{20} = 9 + \frac{7}{20} = 9 + 0.35 = 9.35$ Ans D

03. $\frac{0.46 - 0.046}{0.046 \div 4.6} = \frac{0.414}{0.01} = 41.4$

$$\begin{array}{r} 0.460 \\ - 0.046 \\ \hline 0.414 \end{array}$$
 Ans: C

04. $5.4 + \boxed{x} = 20.9$
 $x = 20.9 - 5.4 = 15.5$ Ans: A

05.
$$\begin{array}{r} 22.356 \\ 23.500 \\ + 689.400 \\ \hline 735.256 \end{array}$$

$$\begin{array}{r} 735.256 \\ - 131.600 \\ \hline 603.656 \end{array}$$
 Ans: B

06. other number = $\frac{42.63}{2.1} = 20.3$ Ans: C

07. $3.35 \times 8 = 26.8$ Ans: C

08. $218.99 + 109.85 = 328.84 \text{ kg}$ Ans: D

09. $39.45 - 28.47 = 10.98$ Ans: B

10. $18.35 \times 1.2 = 22.02 \approx 22.02$ Ans: C

JEE ADVANCED

11. A) 5.3242×10^2 , C) 6.4932×10^2 Ans: A, C

12. A) $4.2 \times 10 = 42$ ✓ B) $0.042 \times 1000 = 42$ ✓
 C) $\frac{3.5}{10} = 0.35$ ✓ D) $\frac{5.25}{100} = 0.0525$
 Ans: A, B, C

13. Statement I: $1.2 + 0.75 = 1.95 \text{ miles (True)}$

Statement II: Conceptual (True) Ans: A



14. Statement I: Mathematically (True)

Statement II: Mathematically (True)

Ans. A

15. Assertion: $0.125 \times 1000 = 125$ (True)

Reason: Conceptual (True)

Ans. A

16. Assertion: $\frac{45.6}{100} = 0.456$ (True)

Ans. A

Reason: Conceptual (True)

17. 3.50, 0.67, 15.60, 40.00

Ans. B

18. 12.352, 17.382, 18.415, 19.613

Ans. A

19. $3.46 \times 100 = 346$

Ans. B

20. $\frac{45.2}{1000} = 0.0452$

Ans. 7

21. $\frac{129.5}{18.5} = 7$

Ans. 9

22. $0.36 = \frac{36}{100} = \frac{9}{25}$, Numerator = 9

23. a) $367.80 \times 6 = 2206.8$ (x)
b) 277.772 (P)
c) 2.5375 (S)
d) 543.73 (Q)

Ans: x, P, S, Q

24. a) $0.75 = \frac{75}{100} = \frac{3}{4}$ (P)

b) $0.2 = \frac{2}{10} = \frac{1}{5}$ (Q)

c) $0.6 = \frac{6}{10} = \frac{3}{5}$ (x)

d) $0.125 = \frac{125}{1000} = \frac{1}{8}$ (S)

Ans. P, Q, S, x

$\Rightarrow$ THE END $\Leftarrow$