

INTEGRATED

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Class: VI, MATHEMATICS

8. MENSURATION

TEACHING TASK

01. We know, $1 \text{ m} = 3.28084 \text{ ft}$
 $60 \times 3.28084 = 196.85 \text{ ft}$

Ans: B

02. We know, $1 \text{ l} = 1000 \text{ ml}$
 $2 \times 1000 = 2000 \text{ ml}$

Ans: A

03. $1 \text{ kg} = 2.20462 \text{ lb}$
 $1200 \times 2.20462 = 2645.5 \text{ lb}$

Ans: B

04. We know, $1 \text{ yard} = 0.9144 \text{ mt}$
 $50 \times 0.9144 = 45.72 \text{ mt}$

Ans: A

05. $1 \text{ UK gallon} = 4.546 \text{ lt}$
~~50~~ $\frac{15}{4.546} = 3.30 \text{ gal}$

Ans: A

06. $1 \text{ oz} = 28.3495 \text{ g}$
 $12 \times 28.3495 = 340.2$

Ans: A

07. $1 \text{ Km} = 0.621371 \text{ ml}$
 $1.5 \times 0.621371 = 0.93$

Ans: B

08. $1 \text{ lb} = 0.453592 \text{ kg}$
 $50 \times 0.453592 = 22.68 \text{ kg}$

Ans: A

09 $1 \text{ m}^3 = 1000 \text{ lit}$
 $200 \times 1000 = 200000 \text{ lit}$

(2)
 Ans: A

10 $1 \text{ inch} = 2.54 \text{ cm}$
 $\frac{15}{2.54} = 5.905 \approx 5.9$

Ans: A

JEE ADVANCED

11. Conceptual \rightarrow A, B, D

Ans: A, B, D

12. Conceptual \rightarrow A, B, C

Ans: A, B, C

13. Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

14. Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

15. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: A

16. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: B

17 $V = l \times b \times h$
 $= 25 \times 10 \times 2 = 500 \text{ m}^3$

Ans: A

18 $1 \text{ m}^3 = 1000 \text{ lit}$

$500 \text{ m}^3 = 500 \times 1000 = 500000 \text{ lit}$

$1 \text{ UK gallon} = 4.546 \text{ lit}$

$\frac{500000}{4.546} = 109,900 \text{ (Approx)}$

4.546

Ans: B

19. Conceptual

(3)
Ans: B

20. $1 \text{ kg} = 2.2 \text{ lb}$ (Approx)

Ans: A

21. $1 \text{ m} = 100 \text{ cm}$

$$150 \text{ m} = 150 \times 100 \text{ cm} \\ = 15000 \text{ cm}$$

~~Ans:~~
A: 15000

22. $1 \text{ kg} = 1000 \text{ g}$

$$25 \times 1000 = 25000 \text{ g}$$

A: 25000

23 a) $1 \text{ km} = 1000 \text{ m}$ (P)

b) $1 \text{ m} = 100 \text{ cm}$ (Q)

c) $1 \text{ cm} = 10 \text{ mm}$ (R)

d) $1 \text{ kg} = 1000 \text{ g}$ (S)

Ans: P, Q, R, S

24 a) $1 \text{ ft} = 12 \text{ inch}$ (P)

b) $1 \text{ yard} = 3 \text{ ft}$ (Q)

c) $1 \text{ mile} = 1760 \text{ yard}$ (R)

d) $1 \text{ pound} = 16 \text{ ounce}$ (S)

Ans: P, Q, R, S

LEARNERS TASK (CUE'S)

01. Conceptual

Ans: B

02. Conceptual

Ans: A

03. Conceptual

Ans: C

04. Conceptual

Ans: B

05. Conceptual

Ans: B

06	Conceptual	④ Ans: B
07	Conceptual	Ans: A
08	Conceptual	Ans: A
09.		
10.		

JEE MAINS LEVEL

01.	$1 \text{ kg} = 2.2046 \text{ lb.}$ $90 \times 2.2046 = 198.4 \text{ lb}$	Ans: B
02	$1 \text{ UK cup} = 284 \text{ ml}$ $\frac{500}{284} = 1.76 \text{ cup}$	Ans: A
03	$1 \text{ mile} = 1.609 \text{ Km}$ $5 \times 1.609 = 8.045 \text{ Km} = 0.051 \text{ cm}$	Ans: A
04	$1 \text{ UK gallon} = 4.546 \text{ lit}$ $8 \times 4.546 = 36.368 = 36.37 \text{ lit}$	Ans: A
05	$1 \text{ ft} = 30.48 \text{ cm}$ $3 \times 30.48 = 91.44 \text{ cm}$	Ans: A
06	$1 \text{ lb} = 0.453592 \text{ kg}$ $154 \times 0.453592 = 69.85 \text{ kg}$	Ans: A
07	$1000 \text{ ml} = 1 \text{ lit}$ $\frac{2500}{1000} = 2.5 \text{ lit}$	Ans: A

08 $1 \text{ mt} = 1.09361 \text{ yd}$
 $120 \times 1.09361 = 131.23 \text{ yd}$

(5)
Ans: A

09 $1 \text{ kg} = 35.274 \text{ oz}$
 $30 \times 35.274 = 1058.22 \text{ oz}$

Ans: A

10 $1 \text{ lit} = 1000 \text{ ml}$
 $10 \times 1000 = 10,000 \text{ ml}$

Ans: A

JEE ADVANCED

Q1. Conceptual \rightarrow A, B, D

Ans: A, B, D

Q2. Conceptual \rightarrow A, B, C

Ans: A, B, C

Q3. Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

Q4. Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

Q5. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: B

Q6. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: B

17. Conceptual

Ans: A

18 $1 \text{ kg} = 2.2 \text{ lb}$

$15 \times 2.2 = 33 \text{ lb}$

Ans: A

19. Conceptual

6
Ans: B

20. $1 \text{ UK gallon} = 4.546 \text{ lit}$
 $\frac{50}{4.546} \approx 11 \text{ (Approx)}$

Ans: A

21. $1 \text{ lit} = 1000 \text{ ml}$
 $200 \times 1000 = 200000$

Ans: 200000

22. $1 \text{ mile} = 1760 \text{ yards}$
 $\frac{1760}{1760} = 1 \text{ mile}$

Ans: 1

- 23
- a) $1 \text{ lit} = 1000 \text{ ml}$ (P)
 - b) $1 \text{ kg} = 1000 \text{ gms}$ (Q)
 - c) $1 \text{ ml} = 0.001 \text{ lit}$ (R)
 - d) $1 \text{ gms} = 0.001 \text{ kg}$ (S)

Ans: P, Q, R, S

- 24
- a) $1 \text{ inch} = 2.54 \text{ cm}$ (P)
 - b) $1 \text{ mt} = 3.28 \text{ ft}$ (Q)
 - c) $1 \text{ kg} = 2.2 \text{ pounds}$ (R)
 - d) $1 \text{ lit} = 0.22 \text{ gallons}$ (S)

Ans: P, Q, R, S

⇒ THE END ⇐