



## Solutions

**S1. Ans.(d)**

**Sol.**

$$16 \times \frac{2.4}{100} ? = 288$$

$$? = 750$$

**S2. Ans.(b)**

**Sol.**

$$\frac{(-251 \times 21 \times (-12))}{?} = \frac{15813}{100}$$

$$? = 400$$

**S3. Ans.(d)**

**Sol.**

$$? = \left[ \frac{130 \times 130}{25} \times 15 \right] \frac{1}{30} = 338$$

**S4. Ans.(e)**

**Sol.**

$$? = \sqrt{\sqrt{4900} + \sqrt{5476}} = \sqrt{70 + 74} = \sqrt{144} = 12$$

**S5. Ans.(e)**

$$\text{Sol. } ? = 24.375 - 1.955 = 22.420$$

**S6. Ans.(d)**

$$\text{Sol. } ? = 13.141 + 31.417 - 27.118 \\ = 17.44$$

**S7. Ans.(b)**

**Sol.**

$$? = \sqrt{8.0656}$$

$$= \sqrt{\frac{80656}{10000}}$$

$$= \frac{284}{100}$$

$$= 2.84$$



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**S8. Ans.(b)**

**Sol.**

$$\begin{aligned} ? &= 5 \times 3.2 + 4 \times 4 + 3 \left( \frac{3.2}{4} \right) \\ &= 16 + 16 + 2.4 \\ &= 34.4 \end{aligned}$$

**S9. Ans.(e)**

**Sol.**  $?^2 - 441 = 80 \times 5$

$$\Rightarrow ? = \sqrt{841}$$

$$\Rightarrow ? = 29$$

**S10. Ans.(a)**

**Sol.**  $?^2 = \sqrt{162 \times 128}$

$$= 144$$

$$\Rightarrow ? = 12$$

**S11. Ans.(a)**

**Sol.**  $? = 6\sqrt{5} \times 12\sqrt{5} - 361$

$$= 360 - 361$$

$$= -1$$

**S12. Ans.(b)**

**Sol.**  $? = 111.1 + 25.8 + 153.5$

$$= 290.4$$

**S13. Ans.(b)**

**Sol.**  $?^3 = 54 \times 32$

$$? = \sqrt[3]{1728}$$

$$? = 12$$

**S14. Ans.(e)**

**Sol.**

$$? = \frac{5}{4} + \frac{14}{9} \times \frac{13}{8} \times \frac{2}{13}$$

$$? = \frac{5}{4} + \frac{14}{36} = \frac{45+14}{36}$$

$$? = \frac{59}{36} = 1 \frac{23}{36}$$

**S15. Ans.(e)**

**Sol.**  $? = 25 \times 14 - 42 + 4^? = 18^2$

$$\Rightarrow 350 - 42 + 4^? = 324$$

$$\Rightarrow 4^? = 324 - 308 = 16$$

$$? = 2$$



**S16. Ans.(a)**

$$\begin{aligned}\text{Sol. } (6)^? &= (6)^3 \div 6^4 \times 6^6 \\ \Rightarrow (6)^? &= 6^{3-4+6} \\ \Rightarrow ? &= 5\end{aligned}$$

**S17. Ans.(b)**

$$\begin{aligned}\text{Sol. } ? &= 576.03 - 472.31 \\ &= 103.72\end{aligned}$$

**S18. Ans.(e)**

$$\begin{aligned}\text{Sol. } ? &= 24 \div 16 \times 7.4 + 343 - 231 \\ &= 11.1 + 112 \\ &= 123.1\end{aligned}$$

**S19. Ans.(c)**

$$\begin{aligned}\text{Sol. } 7 \times ? &= \frac{84 \times 84}{28} \times 12 \times \frac{1}{24} \\ ? &= 18\end{aligned}$$

**S20. Ans.(b)**

$$\begin{aligned}\text{Sol. } ? &= \frac{7.9}{100} \times 134 - \frac{3.4}{100} \times 79 \\ &= 7.9\end{aligned}$$

**S21. Ans.(b)**

$$\begin{aligned}\text{Sol. } \\ ? &= \frac{144}{16} = 9\end{aligned}$$

**S22. Ans.(c)**

$$\text{Sol. } ? = 26,281$$

**S23. Ans.(a)**

$$\begin{aligned}\text{Sol. } 9 \times ? &= 207.27 \\ \Rightarrow ? &= 23.03\end{aligned}$$

**S24. Ans.(b)**

$$\begin{aligned}\text{Sol. } (?)^3 &= 180 + 156 - 120 = 216 \\ \Rightarrow ? &= 6\end{aligned}$$

**S25. Ans.(a)**

$$\begin{aligned}\text{Sol. } (?)^2 &= 2 \times 7\sqrt{8} - 21 + 8 + 49 - 14\sqrt{8} \\ &= 57 - 21 \\ &= 36 \\ \therefore ? &= \pm 6\end{aligned}$$



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**S26. Ans.(d)**

**Sol.**

$$\frac{?}{100} \times 19.07 = 359.56 - 207$$

$$? = \frac{152.56 \times 100}{19.07}$$

$$? = 800$$

**S27. Ans.(c)**

**Sol.**  $(?)^4 = 243 \times 27$

$$(?)^4 = (9)^4$$

$$\Rightarrow ? = 9$$

**S28. Ans.(b)**

**Sol.**

$$? = \frac{8}{3} + \frac{24}{7} \times \frac{25}{6} \times \frac{7}{50}$$

$$= \frac{8}{3} + 2$$

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

**S29. Ans.(a)**

**Sol.**  $? = 0.0003 - 0.00003 + 0.03$

$$= 0.03027$$

**S30. Ans.(b)**


**Sol.**

$$\frac{?}{41} = 354 - 425 + 240$$


$$\Rightarrow ? = 41 \times 169$$

$$\Rightarrow ? = 6929$$



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