

$$22. \quad ? = \left(\frac{120}{2}\right) + 12 \times 7 - \left(\frac{245}{7}\right) + 11$$

$$= 60 + 84 - 35 + 11 = 120$$

$$23. \quad ? = \left(\frac{880}{8}\right) - 4 \times 14 + \sqrt{324}$$

$$= 110 - 56 + 18 = 72$$

$$24. \quad (?)^2 + ? = 13^2 + 22^2 + 2715 - 12^3$$

$$= 169 + 484 + 2715 - 1728 = 1640$$

By substituting the given options, we have $? = 40$

$$25. \quad ? = 48 + 41 \times 779 + 55 + 36 \times 648 + 12 + 47 \times 799$$

$$= (48 \times 779/41) + (55 \times 648/36) + (12 \times 799/47)$$

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$$= (48 \times 19) + (55 \times 18) + (12 \times 17)$$

$$= 912 + 990 + 204 = 2106$$

$$26. \quad ? = \left(40 \times \frac{540}{27}\right) + \left(29 \times \frac{748}{34}\right) - \left(14 \times \frac{525}{35}\right)$$

$$= \left(40 \times \frac{540}{27}\right) + \left(29 \times \frac{748}{34}\right) - \left(14 \times \frac{525}{35}\right)$$

$$= (40 \times 20) + (29 \times 22) - (14 \times 15)$$

$$= 800 + 638 - 210 = 1228$$

$$27. \quad 21^3 = 9261, 34^3 = 39304, 32^2 = 1024, 25^2 = 625$$

$$(2 + ?)^3 = (9261)^{1/3} + \sqrt[3]{39304} + \sqrt{1024} + 113 + 25^2 + 2550$$

$$(2 + ?)^3 = 21 + 34 + 32 + 113 + 625 + 2550 = 3375$$

Now, $15^3 = 3375$

So, $(2 + ?) = 15$ or $? = 13$

$$28. \quad 62^2 = 3844, 46^2 = 2116, 51^2 = 2601, 11^2 = 121, 15^2 = 225, 5^2 = 25$$

$$\sqrt{(?)} = \sqrt{3844} \times \sqrt{2116} - 51^2 - \sqrt{121} - 15^2 + \sqrt{25}$$

$$\sqrt{(?)} = 62 \times 46 - 2601 - 11 - 225 + 5$$

$$\sqrt{(?)} = 20 \text{ or } ? = 400$$

$$29. \quad 88^2 = 7744, 76^2 = 5776, 71^2 = 5041$$

$$10^3 = 1000, 12^3 = 1728, 22^2 = 484$$

$$? = \sqrt{7744} - \sqrt[3]{1000} + \sqrt{5776} - 22^2 - \sqrt{5041} - \sqrt[3]{1728}$$

$$= 88 - 10 + 76 - 484 - 71 - 12 = -413$$

$$30. \quad ? \times 26 = 34 \times 41 + 65 \times 29 - 45 \times 39 - 16$$

$$? \times 26 = 1394 + 1885 - 1755 - 16$$

$$? \times 26 = 1508$$

$$? = \frac{1508}{26} = 58$$

$$31. \quad ? = 1769 + 61 - 11$$

$$= 29 - 11 = 18$$

$$32. \quad 50^2 = 2500, 45^2 = 2025, 67^2 = 4489$$

$$? \approx \sqrt{2500} - \sqrt{2025} + \sqrt{4489}$$

$$= 50 - 45 + 67 = 72$$

$$33. \quad 18^3 = 5832, 11^3 = 1331, 3^3 = 27$$

$$? \approx \sqrt[3]{5832} + \sqrt[3]{1331} - \sqrt[3]{27}$$

$$= 18 + 11 - 3 = 26$$

$$34. \quad ? \approx 22^2 - 38^2 + 16^2$$

$$= 484 - 1444 + 256 = -704$$

$$35. \quad ? = \frac{(34 \times 20 - 0)}{20}$$

$$= \frac{(680 - 0)}{20} = \frac{680}{20} = 34$$

$$36. \quad ? \approx \left(\frac{80 \times 785}{100}\right) + \left(\frac{5 \times 640}{100}\right)$$

$$= \left(\frac{62800}{100}\right) + \left(\frac{3200}{100}\right)$$

$$= 628 + 32 = 660$$

$$37. \quad ? \approx 45 \times 42 - 13 \times 8$$

$$= 1890 - 104 = 1786$$

$$38. \quad (?)^2 \approx 39^2 - 23 - 7^3$$

$$= 1521 - 23 - 343 = 1155$$

So, $? \approx 34$

$$39. \quad ? = 3900 + 65 \times 45 - 29$$

$$= 60 \times 42 - 29 = 2520 - 29 = 2491$$

$$40. \quad ? = \frac{(19 \times 108 \times 60)}{(18 \times 15)}$$

$$= 19 \times \left(\frac{108}{18}\right) \times \left(\frac{60}{15}\right)$$

$$= 19 \times 6 \times 4 = 456$$

$$41. \quad ? = \frac{(19 \times 144 \times 292)}{(18 \times 73)}$$

$$= 19 \times \left(\frac{144}{18}\right) \times \left(\frac{292}{73}\right)$$

$$= 19 \times 8 \times 4 = 608$$

$$42. \quad ? = 625^{(0.02 + 0.73)} = 625^{0.75} = 625^{3/4}$$

Since, $625^{1/4} = 5, ? = 5^3 = 125$

$$43. \quad ? = 21^2 + 22^2 + 24^2$$

$$= 411 + 484 + 576 = 1501$$

$$44. \quad ? = 72 \times \left(\frac{10}{3}\right) - \sqrt{676}$$

$$= 24 \times 10 - 26 = 240 - 26 = 214$$

$$45. \quad ? = \left(\frac{180}{6}\right) + 12 \times 9 - \left(\frac{300}{5}\right) + 42$$

$$= 30 + 108 - 60 + 42 = 120$$