

91. $86 \times 5 + 26 \times 11 - 22 \times 13 = ?$

(a) 1002

(b) 716

(c) 430

(d) 144

(e) None of these

$$\underline{430} + \cancel{286} - \cancel{286}$$

92. $\frac{186}{\frac{3720}{20}} = 508 + ?$

(a) 454
 (b) 422
 (c) 444
 (d) ~~-322~~
 (e) None of these

~~322~~

$$\frac{3}{5} \times (\underline{331} + ?) = 21 \times \overset{4}{12}$$

420

93. 60% of $(? + \overset{27}{173.5} + \overset{57}{157.5}) = 21 \times 12$

(a) 69

(b) 99

~~(c) 89~~

(d) 79

(e) None of these

$$\begin{array}{r} 20 \\ 131 \\ \hline 231 \end{array}$$

$$? = \frac{154 \times 50 \times 4}{77}$$

2

400

94. $\frac{(154 \times \frac{25}{0.5})}{?} = 19.25$

(a) 600

(b) 800

(c) 200

~~(d) 400~~

(e) None of these

50

19 $\frac{1}{4}$

95. $\sqrt{? + 486} \div 6 = (125)^{\frac{1}{3}}$

(a) 429

(b) 411

(c) 423

(d) 413

(e) None of these

$$\frac{\sqrt{? + 486}}{6} = 5$$

$$? + 486 = 900$$

$$? = \underline{414}$$

$$\frac{4^6}{4^{12}} \times 4^{16} = 4^{?+4}$$

$$4^{16} = 4^{\overbrace{2+4}^6}$$

96. $(4 \times 4)^3 \div (\cancel{512} \div \cancel{8})^4 \times (32 \times 8)^4 =$
 $(2 \times 2)^{?+4}$ 64 $16 \times 2 \times 8$
 4^3 4^4
- (a) 8
 (b) 12
 (c) 6
 (d) 14
 (e) None of these

$$\frac{8 \times 7}{16} \times 12$$

42

97. $\sqrt{(64 \times 49)} \div (4)^2 \times 12 = ?$

(a) 36

(b) 45

(c) 65

(d) 64

☒ (e) None of these

$$\begin{array}{r}
 13 \\
 \cancel{2114} \quad 5 \\
 \hline
 8476 \times 45 = 5868 \\
 ?
 \end{array}$$

$$13 \times 5 = \underline{65}$$

98. $\frac{8476}{?} \times 45 + 32 = 5900$

- (a) 65
- (b) 45
- (c) 60
- (d) 50
- (e) None of these

99. $66 \div 6 \div 0.2 = ?$

(a) 2.2

(b) 1.8

(c) 45

(d) 54

(e) None of these

Handwritten calculation:

$$66 \div 6 = 11$$

$$11 \div 0.2 = 55$$

The final answer 55 is circled in red.

$$25\% + 2.5\%$$

100. 27.5% of 650 =?

(a) 182.25

(b) 172.25

✓ (c) 178.75

(d) 187.75

(e) None of these

$$650 \times \frac{1}{4} + 650 \times \frac{1}{40}$$

$$162.5$$

$$16.25$$

$$\hline 178.75$$

$$\frac{55 + 1 + 154}{66} = \frac{210}{66} = 3\frac{5}{11}$$

101. $\frac{5}{6} + \frac{1}{66} + 2\frac{1}{3} = ?$

(a) $3\frac{2}{11}$

(b) $3\frac{2}{33}$

(c) $2\frac{2}{33}$

(d) $3\frac{5}{11}$

(e) None of these

$7\frac{1}{3}$

102. $\frac{26.3 \times \overset{4}{\cancel{12}} \times 20}{\underset{3}{\cancel{3}}} + \underline{125} = ?$

~~(a) 2229~~

(b) 2292

(c) 2223

(d) 2227

(e) None of these

$$\begin{array}{r} 2104 \\ 125 \\ \hline 2229 \end{array}$$

103. 60% of $(1.5 \times 4 + ?)$ = 15

(a) 15

~~(b) 19~~

(c) 24

(d) 25

(e) None of these

$$(19 + 6) \times \frac{3}{5} = 15$$

19

$$\frac{17}{2} \times \frac{2}{6} = ? \times \frac{3}{51}$$

$? = 1$

104. $\left(3\frac{1}{2} + 5\right) \times 6 = ? \times 51$

(a) 3

(b) 2

(c) 1

(d) 5

(e) None of these

105. $\sqrt{1024} \div 16 + 338 = ? \times 17$

(a) 20

(b) 15

(c) 10

(d) 25

(e) None of these

32

$$\frac{340}{17} = 20$$

106. $\sqrt{324} + \sqrt{961} = (?)^2$

(a) 49

(b) 2401

☒ (c) 7

(d) 343

(e) None of these

$18 + 31 \quad \sqrt{49} = ?$
 $\textcircled{7}$

107. $? = \sqrt{26 \times 2 \times 3} + 60\%$ of 700

(a) 21

(b) 18

(c) 28

(d) 24

(e) None of these

$$\begin{array}{r} 156 \\ 420 \\ \hline 576 \end{array}$$

108. 1800 is 150% of + 1400 is ?% of = 740

(a) 140

(b) 120

(c) 150

(d) 160

(e) None of these

$$2700 + 14? = 740$$

$$14? = -1960$$

$$? = -140$$

109. $\frac{1}{2}$ of $\frac{3}{8}$ of ? = 36 - 20

16

(a) 112

(b) 128

(c) 144

(d) 176

(e) None of these

110. $375 + 585 + ? = 420 \times 260\%$

(a) 124

☒ (b) 132

(c) 84

(d) 96

(e) None of these

$$960 + ? = 1092$$

$$? = \underline{132}$$

111. ~~?~~% of ~~800~~ = ~~293~~ - ~~22~~% of ~~750~~

(a) 14

(b) 18

(c) 12

(d) 16

(e) None of these

11
165

$\frac{15}{2}$

$$8 \times ? = 128$$

$$\underline{? = 16}$$

$$\frac{3}{5} \times \frac{7}{15} \times \frac{13}{9} \times \frac{11}{22} = ?$$

$$\frac{3 \times 7 \times 13 \times 11}{5 \times 15 \times 9 \times 22}$$

$$\frac{3 \times 7 \times 13 \times 11}{5 \times 3 \times 3 \times 2 \times 11}$$

$$\frac{7 \times 13}{5 \times 3 \times 2}$$

$$\frac{91}{30}$$

112. $3\frac{1}{3} \div 6\frac{3}{7} \times 1\frac{1}{2} \times \frac{22}{7} = ?$

(a) $\frac{21}{7}$

(b) $\frac{22}{9}$

(c) $\frac{9}{22}$

(d) $81/2$

(e) None of these

$$64 + \sqrt{?} = 119$$

$$\sqrt{?} = 55$$

3025

$$113. \overset{12.8}{\cancel{25.6\%}} \text{ of } 250 + \sqrt{?} = 119$$

(a) 4225

☒ (b) 3025

(c) 2025

(d) 5625

(e) None of these

55

114. ? + ~~18%~~⁹ of 350 = 72% ~~of 600~~

(a) 362

(b) 365

(c) 366

(d) 369

(e) None of these

$\frac{7}{2}$

63 = 432

369

115. ~~24%~~ of ~~900~~ + ~~16%~~ of ~~800~~ = ~~30%~~ of ~~740~~ = ?

(a) 112

(b) 122

(c) 128

(d) 132

(e) None of these

$$\begin{array}{r} 216 + 128 - 222 \\ - 8 \\ \hline 122 \end{array}$$

$$118 + 648 - 256 = ?$$

$$\underline{? = 510}$$

$$116. \text{ } 12.5\% \text{ of } 944 + (7.2 \times 3.6 \times 25) = ? + 256$$

- (a) 512
- (b) 518
- (c) 510
- (d) 514
- (e) None of these

117. $\frac{752+392-1025+856}{15} = ?$

- (a) 65
(b) 66
(c) 68
(d) 69
(e) None of these

-169

$$\begin{array}{r} 1144 \\ - 169 \\ \hline 975 \\ \hline 15 \end{array}$$

65

118. $32 \times 18 + 18 \times \sqrt{324} = ? \times 5 + 112 \div 8$

(a) 135.2

(b) 174.8

(c) 132.5

(d) 177.2

(e) None of these

$$18 \times 50 - 14 = ? \times 5$$

$$\frac{886}{5} = 177.2$$

119. $\sqrt{9801} + 78\% \text{ of } 800 - ? = 307$

(a) 316

(b) 291

(c) 307

(d) 333

(e) None of these

$$99 + 624 - 307 = ?$$

$$\begin{array}{r} 300 + 17 \\ 99 \\ \hline 300 + 116 \\ \hline 416 \end{array}$$

120. $\sqrt{784} \times 17 + 14 \times \sqrt{1024} - 16 \times$
 $\sqrt{784} = ? \times 4$ $\begin{array}{r} 32 \\ 2 \times 16 \end{array}$

(a) 60

(b) 59

(c) 47

(d) 70

(e) None of these

$$28(17 + 16 - 16) = ? \times 4$$

119

$$28 \times 17 + 14 \times 32 - 16 \times 28 = 4 \times ?$$

$$28(17 + 16 - 16) = 4 \times ?$$

119

121. $2\frac{7}{8}$ of ~~1216~~ + $5\frac{6}{7}$ of ~~875~~ = ?

(a) 8655

~~(b) 8621~~

(c) 8669

(d) 8676

(e) None of these

$$23 \times 152 + 41 \times 125$$

$$\begin{array}{r} 3450 \\ 46 \\ \hline 3496 \\ 5125 \\ \hline 8621 \end{array}$$

122. 36% of $\frac{9}{25} (25 \times 16) + 40\%$ of $\frac{9}{5} (32 \times 8)$ = ?

(a) 1458

(b) 1159

(c) 1168

(d) 1520

(e) None of these

$$144 + 1024$$

$$1168$$

$$\frac{7}{3} \times \frac{1}{5}$$

$$\frac{7}{3} \times \frac{1}{5} = \frac{7}{15}$$

123. $\left(\frac{3}{5} + \frac{2}{3} + \frac{5}{3} - \frac{4}{5}\right) \times 7.5 = ?$

- (a) 16
- (b) 15
- (c) 13
- (d) 18
- (e) None of these

124. $4^2 - 2^2 + 3^2 + 7^2 = ?$

(a) 110

(b) 111

(c) 116

(d) 119

☒ (e) None of these

$$16 - 4 + 9 + 49$$

70

125. ?% of 75 + 72% of 1125 = 960

(a) 259

(b) 225

(c) 255

(d) 200

(e) None of these

$$\frac{18}{72} \times \frac{45}{4}$$

$$? \times \frac{3}{4} = 960 - 810$$

$$\frac{3}{4} \times ? = 150$$

? = 200

$$126. \left(\overset{2}{\cancel{56}} \times \frac{36}{\cancel{28}} \right) + \left(\overset{49}{\cancel{98}} \times \frac{\cancel{45}}{\cancel{99}} \right) = ? + 152 - 148$$

(a) ~~117~~

(b) 116

(c) 118

(d) 200

(e) None of these

$$72 + 49 - 4 = ?$$

$$\begin{array}{r} 45 \\ \hline 117 \end{array}$$

127. $\left(\frac{2}{8} \text{ of } \frac{7}{15} \text{ of } 560\right) + (4.5 \times 2.5 \times 8) = ?$

(a) 260

(b) 150

(c) 288

(d) 188

(e) None of these

$$98 + 90 = 188$$

128. $[(\sqrt{36} \times 18) \times 5] = ? \times \sqrt{1296}$

(a) 15

(b) 13

(c) 16

(d) 12

(e) None of these

$$\begin{array}{r} 3 \\ 6 \times 18 \times 5 \\ \hline 3 \times 2 \end{array}$$

$$129. \sqrt{1024} \times 20 + 256 + ? \times 8 = \frac{3792}{4}$$

(a) 5.4

(b) 6.6

(c) 6.5

(d) 4.9

(e) None of these

$$640 + 256 + 8 \times ? = 948$$

$$896$$

$$? =$$

$$\frac{948 - 896}{8} = 6.5$$

130. ? % of 75 + 72% of 1125 = 960

(a) 259

(b) 225

(c) 255

(d) 200

(e) None of these

$$131. \frac{1}{7} \text{ of } 343 - 25\% \text{ of } 100 = \frac{2}{8} \text{ of } 24$$

(a) 8

(b) 7

(c) 3

(d) 9

(e) None of these

132. $9870 + 8790 + 6552 - ? = 9552$

(a) 15660

(b) 15860

(c) 15460

(d) 15640

(e) None of these

$$\begin{array}{r} 9870 \\ + 8790 \\ + 6552 \\ \hline 25212 \end{array}$$

$$\begin{array}{r} 25212 \\ - 9552 \\ \hline 15660 \end{array}$$

133. $44 \times 50\% \text{ of } 70 - 289 \div 17 \times 2 = ?$

(a) 1504

(b) 1508

☒ (c) 1506

(d) 1510

(e) None of these

$$44 \times 35 - 34$$

$$1506$$

134. $18 + 512 - 128 + ?^2 = 802$

(a) 22

~~(b) 20~~

(c) 16

(d) 24

(e) None of these

$$?^2 = 20^2$$

$$\begin{array}{r} 530 \\ 128 \\ \hline 402 \end{array}$$

$$802 - 402$$

$$\underline{400 = ?^2}$$

$$\underline{? = 20}$$

135. $\sqrt{9^2 + 11^2 - 6} = ? \times \cancel{56}^7 \div \cancel{8}$

(a) 8

~~(b) 2~~

(c) 14

(d) 4

(e) None of these

$$\sqrt{196}$$

$$\cancel{14} = ? \times \cancel{7}$$

②

136. 80% of ? – 50% of 400 = 600

(a) 960

(b) 880

(c) 800

(d) 1000

(e) None of these

$$\frac{4}{5} \times ? = 800$$

137. $\frac{2}{7} - 3\frac{4}{7} + 18\frac{1}{2} = \frac{2}{7} + 15\frac{1}{2}$

(a) -2

(b) -4

(c) 2

(d) 8

(e) None of these

138. $\sqrt{961} + \sqrt{1369} - \sqrt{1444} = \sqrt{361} + \sqrt{?}$

(a) 196

(b) 169

(c) 144

☒ (d) 121

(e) None of these

$$31 + 37 - 38 = 19 + \sqrt{?}$$

$$68 - 57$$

$$\textcircled{11} = \sqrt{?}$$

$$139. \frac{7500}{7} + \frac{10780}{6} = 19500 - ?$$

- (a) 1220
- (b) 1260
- (c) 1280
- (d) 1340
- (e) None of these

$$\begin{array}{r} 18220 \\ 19500 \\ \hline 1220 \end{array}$$

$$140. \quad 28.5 \times 34 + \frac{2320}{8} = (\underline{36})^2 - ?$$

390
2320
8
1296 - ?

- (a) 51
- (b) 47
- (c) 43
- (d) 34
- (e) None of these

$$17 + 952 + 290 - 1296 = ?$$

1259

37

840
112

967
290
1257

$$141. \quad 47 \times 27 + \frac{15600}{8} + 181 = ?$$

Handwritten notes: 1950 above the fraction, 50 below 47.

(a) 3320

(b) 3420

(c) 3370

~~(d) 3400~~

(e) None of these

$$\begin{array}{r} 1350 \\ 81 \\ \hline \end{array}$$

$$\begin{array}{r} 2131 \\ 1269 \\ \hline 3400 \end{array}$$

$$\begin{array}{r}
 562.5 + 760 - 1225 \\
 1322.5 \\
 \underline{1225} \\
 97.5
 \end{array}$$

$$142. \quad 112.5 \times 5 + \frac{4560}{6} - 175 \times 7 = ?$$

(a) 103.5

(b) 91.5

(c) 97.5

(d) 110.5

(e) None of these

$$\begin{array}{r}
 1190 \\
 35 \\
 \hline
 1225
 \end{array}$$

143. $\frac{3}{8}$ of $\frac{5}{27}$ of $\frac{32}{45}$ of ~~2187~~ = ? % of ~~400~~

(a) 21

(b) 23

(c) 25

☒ (d) 27

(e) None of these

27

$4 \times ? =$

$$1 + \left(\frac{7 + 10 - 9 - 8}{12} \right) = ?$$

$$1 + 0 = ?$$

$$? = 1$$

144. $4\frac{7}{12} + 6\frac{5}{6} - 8\frac{3}{4} = ? + 1\frac{2}{3}$

(a) 4

(b) 12

(c) 2

☒ (d) 1

(e) None of these

$$? \times \frac{14}{25} = 217$$

$$? = \frac{25 \times 217}{14}$$

145. 56% of (?) = 217

- (a) 40
- (b) 60
- (c) 50
- (d) 45
- ~~(e) None of these~~

146. $(\underline{87.98} + \underline{56.64} + \underline{123.58}) - (47.6 + 28.6) - ? = (\underline{12})^2$

(a) 42

(b) 40

(c) 45

(d) 38

~~(e) None of these~~

$$\begin{array}{r} 268.20 \\ 75.2 \\ \hline \end{array}$$

$$\begin{array}{r} 193.58 \\ 144 \\ \hline 49.58 \end{array}$$

$$\begin{array}{r} 193.0 \\ \hline \end{array}$$

$$91.7 + 84.3$$

$$176 - 169$$

7

147. $\frac{655 \times 14}{3} + 108.87 - 24.57 - ? = (13)^2$

(a) 3

(b) 7

(c) 5

(d) 9

(e) None of these

84.30

169

$$? \times \frac{37}{100} + 121 - 168 + 12 = 96$$

133

35

99.6

$$? \times \frac{37}{100} = 99.6$$

148. 37% of ? + (11)² - 28.5 × 6 + 12 = (31)²

(a) 2650

(b) 2600

(c) 2750

(d) 2700

(e) None of these

3

149. $(26\% \text{ of } 3800 + 25\% \text{ of } 620) + 33 + ? = ?$

- (a) 35
- (b) 45
- (c) 25
- (d) 55
- (e) None of these

$$\begin{array}{r} 988 \\ 158 \\ \hline 1146 \end{array}$$

$$150. \quad \underbrace{27.8 \times 6}_{\sqrt{400}} + \underbrace{38.9 \times 7}_{39} - ? = (\underline{13})^2 +$$

(a) 240.1

~~(b) 250.1~~

(c) 230.1

(d) 260.1

(e) None of these

$$\begin{array}{r} 168 \\ 1.2 \\ \hline \end{array}$$

$$166.8 + 272.3 - ? = \underbrace{169 + 29}_{189}$$

$$\begin{array}{r} 439.1 \\ 189 \\ \hline 250.1 \\ \hline \end{array}$$

$$151. \frac{4}{9} \times \overset{54}{\cancel{486}} + 35\% \text{ of } \overset{6}{\cancel{120}} + \frac{3}{8} \times \overset{26}{\cancel{208}} = ?$$

(a) 412

(b) 260

(c) 398

~~(d) 336~~

(e) None of these

$$\begin{array}{r} 216 + 42 + 78 = ? \\ 120 \\ \hline 336 \end{array}$$

152. $\left(\frac{7800}{312}\right) + 65\% \text{ of } 1120 = 9 \times ? + 24$
- (a) 81
(b) 39
(c) 27
(d) 36
(e) None of these

$$1 + 728 = 9 \times ?$$

$$\frac{729}{9} = ?$$

81

$$153. \quad ? \times 15 + \left(\frac{330}{12} \right) = 262 + \left(\frac{14}{25} \right)$$

276

(a) 3.6

(b) -1.4

(c) 2.4

(d) -3.6

(e) None of these

$$? \times 15 + 54 = 0$$

$$? = \frac{-54}{15}$$

-3.6

154. 45% of $1200 - 32\%$ of $1500 = 15\%$ of ?

(a) 400

(b) 250

(c) 500

(d) 480

(e) None of these

$$540 - 480 = ? \times \frac{3}{20}$$

$$\frac{60 \times 20}{3} = 400$$

155. $5\frac{1}{4} + 7\frac{1}{3} + 4\frac{1}{2} = 3\frac{1}{6} + ? + 5\frac{1}{6}$

(a) $8\left(\frac{1}{2}\right)$

(b) $8\left(\frac{1}{4}\right)$

(c) 8

(d) $8\left(\frac{3}{4}\right)$

(e) None of these

- 153. 7.5% of 7200 $\div$? + 450 = 15% of 3200**
- (a) 15
 - (b) 24
 - (c) 20
 - (d) 18
 - (e) None of these

157. 45% of 400 + ?² = (16)² + 120

- (a) 12
- (b) 14
- (c) 16
- (d) 18
- (e) None of these

158. 12% of ? + 12.5% of 960 = 16×12

- (a) 840
- (b) 960
- (c) 800
- (d) 600
- (e) None of these

159. 48% of 525 + ? % of 250 = 499

- (a) 88.8
- (b) 76.6
- (c) 82.6
- (d) 98.8
- (e) None of these

160. $252 + 520 \div 20 + 420 = 121 + ?$

- (a) 587
- (b) 577
- (c) 527
- (d) 477
- (e) None of these

161. $16 \times 15 - 240 - 32 \times 10 + 420 = ?^2$

- (a) 10
- (b) 15
- (c) 5
- (d) 12
- (e) None of these

162. 65% of 200 – 26% of 500 =?

- (a) 5
- (b) 8
- (c) 4
- (d) 0
- (e) None of these

163. $52 \times 18 - \sqrt{2304} = (30)^2 - 5\%$ of
240

- (a) 3
- (b) 2
- (c) 0.5
- (d) 4
- (e) None of these

164. $16^2 - 52^2 + 79^2 - 22^2 = ?$

- (a) 3793**
- (b) 3305**
- (c) 3313**
- (d) 3309**
- (e) None of these**

165. $\frac{4860}{6^2} + \frac{5145}{(7)^3} - 47 \times 3 = ?^2$

(a) 9

(b) 7

(c) 3

(d) 6

(e) None of these

166. 64% of 2500 + 75% of 1600 = ? × 112

- (a) 28
- (b) 21
- (c) 24
- (d) 32
- (e) None of these

167. $4^3 \times 32^2 \div 8^3 = (2)^?$

(a) 9

(b) 5

(c) 7

(d) 6

(e) None of these

168. 49% of 180 – 70% of 120 = 9–?

- (a) 5.4
- (b) 5.2
- (c) 4.8
- (d) 4.6
- (e) None of these

169. $\frac{725}{\sqrt{625}} + \frac{2}{5} \times 600 = ?$

(a) 269

(b) 254

(c) 256

(d) 289

(e) None of these

170. $[12 \times (1.9 + 2.1)] - 12 = ?^2$

(a) 7

(b) 3

(c) 6

(d) 5

(e) None of these

171. $14\frac{2}{7}\%$ of 252 + ?² of 125 = 20

- (a) 22
- (b) 18
- (c) 24
- (d) 26
- (e) None of these

172. $\left(\frac{2343}{11}\right) + \left(\frac{126}{3}\right) = ?$

(a) 257
(b) 353
(c) 251
(d) 255
(e) None of these

173. $\frac{42 \times 12}{36 \times 7} + \sqrt{121} = ?$

(a) 13
(b) 12
(c) 15
(d) 14
(e) None of these

174. 16% of $684 \div 11\frac{1}{9}\%$ of $171 = ?$

- (a) 5
- (b) 8
- (c) 6
- (d) 9
- (e) None of these

175. $360 \div 15$ of $(4 \times 2) - \sqrt{?} = 146$

- (a) 2116
- (b) 2209
- (c) 2025
- (d) 1849
- (e) None of these

176. $25^2 - ?^2$ % of 125 = 20

- (a) 22
- (b) 18
- (c) 24
- (d) 26
- (e) None of these

177. $\frac{0.16 \times 1.25}{0.08} + \frac{0.015 \times 150}{0.9} = ?$

(a) 3.5

(b) 3

(c) 2

(d) 5

(e) None of these

178. $\frac{15}{18}$ of 378 $\div \frac{15}{2} = ? - 8$

- (a) 40
- (b) 52
- (c) 36
- (d) 50
- (e) None of these

179. $\sqrt{12.25} \times 18 - (?)^2 = (6)^2 + \sqrt{4}$

(a) 7

(b) 6

(c) 5

(d) 4

(e) None of these

180. $\sqrt{625} \div \sqrt{16} \times 6 = ? \% \text{ of } 300$

- (a) 15
- (b) 12.5
- (c) 17.5
- (d) 10
- (e) None of these

