

SIMPLIFICATION PART - 2

Simplify :

$$(3.321)^3 + (2.681)^3 + (1.245)^3 - 3 \times 3.321 \times 2.681 \times 1.245$$

$$(3.321)^2 + (2.681)^2 + (1.245)^2 - (3.321 \times 2.681) - (2.681 \times 1.245) - (1.245 \times 3.321)$$

= ?

- (a) 6.125 (b) 8.645 (c) 7.247 (d) 10.245

Simplify the given expression .

$$\frac{0.09 \times 0.09 + 0.04 \times 0.04 + 0.16 \times 0.16 + 2 \times 0.09 \times 0.04 + 2 \times 0.04 \times 0.16 + 2 \times 0.09 \times 0.16}{0.3 \times 0.3 + 0.2 \times 0.2 + 0.4 \times 0.4}$$

- (a) 0.38 (b) 0.24 (c) 0.32 (d) 0.29

Find the value of the following expression.

$$\left[\frac{5}{8} - \left\{ \frac{3}{8} - \left(\frac{5}{8} - \frac{3}{8} \right) \right\} \right] \text{ of } 8.8 - 1.2$$

$$4\frac{1}{6} \div 2.5 \times 2 \div \frac{1}{6} \text{ of } 60 + \left(\frac{3}{4} - \frac{3}{8} \right)$$

(a) $5\frac{22}{43}$ (b) $3\frac{23}{67}$ (c) $4\frac{44}{85}$ (d) $4\frac{4}{5}$

Solve the following.

$$24 \div \frac{3}{8} \text{ of } (8 + 2 \times \overline{7-3}) + \left[\frac{2}{11} \div \frac{4}{55} - \left\{ \frac{5}{8} + \frac{6}{16} \right\} \right]$$

$$32 \div \overline{15 - 7} + 75 \div (6 + 15 \div 3 + 4)$$

(a) $\frac{23}{27}$

(b) $\frac{9}{2}$

(c) $\frac{11}{18}$

(d) $\frac{15}{19}$

Solve

$$\frac{(6.9)^3 + (2.7)^3 + (5.8)^3 - 3 \times 6.9 \times 2.7 \times 5.8}{(6.9)^2 + (2.7)^2 + (5.8)^2 - (6.9)(2.7) - (2.7)(5.8) - (5.8)(6.9)}$$

- (a) 15.1 (b) 15.3 (c) 15.2 (d) 15.4

The simplified value of

$$119 - [48 \div 6 - 7 \{5 \times 12 \div 3 - (15 - \overline{3 - 8})\}]$$

$$24 \div 3 - 9 \text{ of } 3 + (52 - \overline{8 - 4}) \div 6$$

is:

(a) $-\frac{111}{11}$ (b) $-\frac{127}{27}$ (c) $\frac{127}{43}$ (d) $\frac{111}{11}$

Evaluate the continued fraction:

$$x = 4 + \frac{1}{5 + \frac{1}{6 + \frac{1}{2}}}$$

SSC CGL 12/09/2025 (Shift 2)

- (a) $\frac{281}{67}$ (b) $\frac{283}{67}$ (c) $\frac{286}{67}$ (d) $\frac{287}{67}$

Evaluate:

$$12\left(\frac{1}{2}\right)\% \text{ of } 480 \text{ km} + 66\left(\frac{2}{3}\right)\% \text{ of } 270 \text{ km}$$

SSC CGL 12/09/2025 (Shift 3)

(a) 240 km

(b) 230 km

(c) 320 km

(d) 450 km

Evaluate:

$$9\frac{1}{5} - \left[\frac{5}{6} \div \left\{ \frac{5}{6} - \left(\frac{1}{2} \times \left(\frac{7}{4} - \frac{1}{4} \right) \right) \right\} \right]$$

SSC CGL 14/10/2025 (Shift 1)

(a) $-\frac{4}{5}$ (b) $3\frac{1}{4}$ (c) $-2\frac{3}{4}$ (d) $7\frac{3}{4}$

Evaluate the continued fraction:

$$x = 5 + \frac{1}{5 + \frac{1}{6 + \frac{1}{2}}}$$

SSC CGL 14/10/2025 (Shift 1)

- (a) $\frac{348}{67}$ (b) $\frac{358}{67}$ (c) $\frac{348}{77}$ (d) $\frac{348}{69}$

Evaluate the continued fraction:

$$x = 3 + \frac{1}{8 + \frac{1}{6 + \frac{1}{2}}}$$

SSC CGL 14/10/2025 (Shift 3)

- (a) $\frac{331}{106}$ (b) $\frac{131}{106}$ (c) $\frac{321}{106}$ (d) $\frac{231}{106}$

A large, faint watermark logo for Weshine Academy is centered in the background. It is circular with an orange border. The text 'Weshine Academy' is written in a light blue font across the top. Below it, 'SINCE 2013' is written in a smaller font. At the bottom, a list of exam types is provided: 'TNUSRB | TRB | TET | SSC | BANK EXAM'. In the center of the logo is a stylized sun or starburst icon with the tagline 'Guiding you to get through' written below it.

Thank You