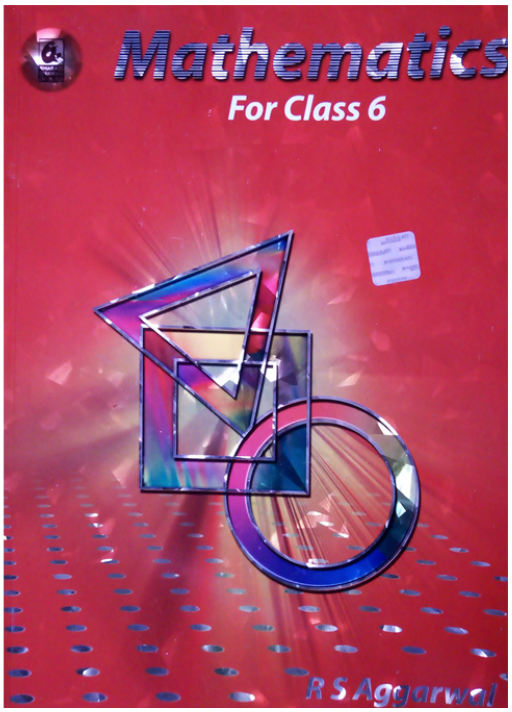
RS Aggarwal Solutions for Class 6 Maths Chapter 6–Simplification

Class 6 - Chapter 6 Simplification



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RS Aggarwal Solutions for Class 6 Maths Chapter 6–Simplification

Class 6: Maths Chapter 6 solutions. Complete Class 6 Maths Chapter 6 Notes.

RS Aggarwal Solutions for Class 6 Maths Chapter 6–Simplification

RS Aggarwal 6th Maths Chapter 6, Class 6 Maths Chapter 6 solutions

Ex 6A Solutions

Simplify

Question 1.

Solution:

21 – 12 ÷ 3 x 2

= 21 – 4 x 2

= 21 – 8

= 13. Ans

Question 2.

Solution:

16 + 8 ÷ 4 – 2 x 3

= 16 + 2 – 2 x 3

= 16 + 2 – 6

= 18 – 6

= 12. Ans.

Question 3.

Solution:

13 – (12 – 6 ÷ 3)

= 13 – (12 – 2)

= 13 – (10)

= 13 – 10

= 3 Ans.

Question 4.

Solution:

19 – [4 + {16 – (12 – 2)}]

= 19 – [4 + {16 – 10}]

= 19 – [4 + 6]

= 19 – 10

= 9. Ans

Question 5.

Solution:

36 – [18 – {14 – (15 – 4 ÷ 2 x 2)}]

= 36 – [18 – {14 – (15 – 2 x 2)}]

= 36 – [18 – {14 – (15 – 4)}]

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= 36 – [18 – {14 – 11}]

= 36 – [18 – 3]

= 36 – 15

= 21. Ans.

Question 6.

Solution:

$27-[18-\{16-(5-4-\overline{1\quad\quad\quad\quad})\}]$

= 27 – [18 – {16 – (5 – 3)}]

= 27 – [18 – {16 – 2}]

= 27 – [18 – 14]

= 27 – 4

= 23. Ans.

Question 7.

Solution:

443÷35of5+45×310−15

$$= \frac{24}{5} \div \frac{3}{5} \text{ of } \frac{5}{1} + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

$$= \frac{24}{5} \div 3 + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

$$= \frac{24}{5} \times \frac{1}{3} + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

$$= \frac{8}{5} + \frac{12}{50} - \frac{1}{5}$$

$$= \frac{80 + 12 - 10}{50} = \frac{92 - 10}{50} = \frac{82}{50}$$

$$= \frac{82 \div 2}{50 \div 2} = \frac{41}{25} = 1\frac{16}{25}. \quad \textbf{Ans.}$$

Question 8.

Solution:

(23+49)of35÷123×114−13

$$= \left(\frac{2}{3} + \frac{4}{9}\right) \text{ of } \frac{3}{5} \div \frac{5}{3} \times \frac{5}{4} - \frac{1}{3}$$

$$= \frac{6+4}{9} \text{ of } \frac{3}{5} \div \frac{5}{3} \times \frac{5}{4} - \frac{1}{3}$$

$$= \frac{10}{9} \text{ of } \frac{3}{5} \div \frac{5}{3} \times \frac{5}{4} - \frac{1}{3}$$

$$= \frac{2}{3} \div \frac{5}{3} \times \frac{5}{4} - \frac{1}{3} = \frac{2}{3} \times \frac{3}{5} \times \frac{5}{4} - \frac{1}{3}$$

$$= \frac{1}{2} - \frac{1}{3} = \frac{3-2}{6} = \frac{1}{6} \quad \textbf{Ans.}$$

Question 9.

Solution:

713÷23of215+138÷234−112

$$= \frac{22}{3} \div \frac{2}{3} \text{ of } \frac{11}{5} + \frac{11}{8} \div \frac{11}{4} - \frac{3}{2}$$

$$= \frac{22}{3} \div \frac{22}{15} + \frac{11}{8} \div \frac{11}{4} - \frac{3}{2}$$

$$= \frac{22}{3} \times \frac{15}{22} + \frac{11}{8} \times \frac{4}{11} - \frac{3}{2}$$

$$= \frac{5}{1} + \frac{1}{2} - \frac{3}{2} = \frac{10+1-3}{2} = \frac{8}{2} = 4 \quad \textbf{Ans.}$$

Question 10.

Solution:

517−{3310÷(245−710)}

$$= \frac{36}{7} - \left\{\frac{33}{10} \div \left(\frac{14}{5} - \frac{7}{10}\right)\right\}$$

$$= \frac{36}{7} - \left\{\frac{33}{10} \div \frac{21}{10}\right\}$$

$$= \frac{36}{7} - \left\{\frac{33}{10} \times \frac{10}{21}\right\} = \frac{36}{7} - \frac{11}{7}$$

$$= \frac{36-11}{7} = \frac{25}{7} = 3\frac{4}{7} \quad \textbf{Ans.}$$

Working :

$$\left[\begin{array}{l} \dfrac{14}{5} - \dfrac{7}{10} \\ \because \dfrac{28-7}{10} = \dfrac{21}{10} \end{array}\right]$$

Question 11.

Solution:

934÷[216+{413−(112+134)}]

$$= \frac{39}{4} \div \left[\frac{13}{6} + \left\{\frac{13}{3} - \left(\frac{3}{2} + \frac{7}{4}\right)\right\}\right]$$

$$= \frac{39}{4} \div \left[\frac{13}{6} + \left\{\frac{13}{3} - \frac{13}{4}\right\}\right]$$

$$= \frac{39}{4} \div \left[\frac{13}{6} + \frac{13}{12}\right]$$

$$= \frac{39}{4} \div \left[\frac{39}{12}\right] = \frac{39}{4} \times \frac{12}{39} = 3 \quad \textbf{Ans.}$$

Working :

$$\frac{3}{2} + \frac{7}{4}$$

$$\frac{6+7}{4} = \frac{13}{4}$$

$$\frac{13}{3} - \frac{13}{4}$$

$$\frac{52-39}{12} = \frac{13}{12}$$

$$\frac{13}{6} + \frac{13}{12}$$

$$\frac{26+13}{12} = \frac{39}{12}$$

Question 12.

Solution:

4110−[212−{56−(25+310−415)}]

$$= \frac{41}{10} - \left[\frac{5}{2} - \left\{\frac{5}{6} - \left(\frac{2}{5} + \frac{3}{10} - \frac{4}{15}\right)\right\}\right]$$

$$= \frac{41}{10} - \left[\frac{5}{2} - \left\{\frac{5}{6} - \frac{2}{5} - \frac{3}{10} + \frac{4}{15}\right\}\right]$$

$$= \frac{41}{10} - \left[\frac{5}{2} - \frac{5}{6} + \frac{2}{5} + \frac{3}{10} - \frac{4}{15}\right]$$

$$= \frac{41}{10} - \frac{5}{2} + \frac{5}{6} - \frac{2}{5} - \frac{3}{10} + \frac{4}{15}$$

$$= \frac{246 - 150 + 50 - 24 - 18 + 16}{60}$$

[LCM of 4, 2, 6, 5, 10, 15 = 60]

$$= \frac{246 + 50 + 16 - 150 - 24 - 18}{60}$$

$$= \frac{312 - 192}{60} = \frac{120}{60}$$

$= 2$ **Ans.**

Question 13.

Solution:

156+[223−{334(345÷912)}]

$$= \frac{11}{6} + \left[\frac{8}{3} - \left\{\frac{15}{4}\left(\frac{19}{5} \div \frac{19}{2}\right)\right\}\right]$$

$$= \frac{11}{6} + \left[\frac{8}{3} - \left\{\frac{15}{4}\left(\frac{19}{5} \times \frac{2}{19}\right)\right\}\right]$$

$$= \frac{11}{6} + \left[\frac{8}{3} - \left\{\frac{15}{4} \times \frac{2}{5}\right\}\right]$$

$$= \frac{11}{6} + \left[\frac{8}{3} - \frac{3}{2}\right] = \frac{11}{6} + \frac{8}{3} - \frac{3}{2}$$

$$= \frac{11 + 16 - 9}{6} = \frac{27 - 9}{6} = \frac{18}{6}$$

$= 3$ **Ans.**

Question 14.

Solution:

$445 \div \{215 - 12(114 - 14 - \overline{15})\}$

$$= \frac{24}{5} \div \left\{\frac{11}{5} - \frac{1}{2}\left(\frac{5}{4} - \overline{\frac{1}{4} - \frac{1}{5}}\right)\right\}$$

$$= \frac{24}{5} \div \left\{\frac{11}{5} - \frac{1}{2}\left(\frac{5}{4} - \frac{1}{4} + \frac{1}{5}\right)\right\}$$

$$= \frac{24}{5} \div \left\{\frac{11}{5} - \frac{1}{2} \times \frac{24}{20}\right\}$$

$$= \frac{24}{5} \div \left\{\frac{11}{5} - \frac{3}{5}\right\}$$

$$= \frac{24}{5} \div \frac{8}{5} = \frac{24}{5} \times \frac{5}{8}$$

$= 3$ **Ans.**

Question 15.

Solution:

$712-[214\div\{114-12(32-13-\overline{16})\}]$

$$=\frac{15}{2}-\left[\frac{9}{4}\div\left\{\frac{5}{4}-\frac{1}{2}\left(\frac{3}{2}-\frac{1}{3}+\frac{1}{6}\right)\right\}\right]$$

$$=\frac{15}{2}-\left[\frac{9}{4}\div\left\{\frac{5}{4}-\frac{1}{2}\times\frac{4}{3}\right\}\right]$$

$$=\frac{15}{2}-\left[\frac{9}{4}\div\left\{\frac{5}{4}-\frac{2}{3}\right\}\right]$$

$$=\frac{15}{2}-\left[\frac{9}{4}\div\frac{7}{12}\right]=\frac{15}{2}-\left[\frac{9}{4}\times\frac{12}{7}\right]$$

$$=\frac{15}{2}-\frac{27}{7}=\frac{105-54}{14}=\frac{51}{14}=3\frac{9}{14}$$ **Ans.**

Ex 6B Solutions

OBJECTIVE QUESTIONS

Mark against the correct answer in each of the following :

Question 1.

Solution:

(c) 8 + 4 ÷ 2 x 5

= 8 + 4 x 12 x 5

= 8 + 10

= 18.

Question 2.

Solution:

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(b) 54 ÷ 3 of 6 + 9 = 54 ÷ 18 + 9

= 54 x 118 + 9

= 3 + 9

= 12.

Question 3.

Solution:

(b) 13 – (12 – 6 ÷ 3)

= 13 – (12 – 2)

= 13 – 10

= 3

Question 4.

Solution:

(a) 1001 ÷ 11 of 13

= 1001 ÷ 143

= 1001 x 1143

= 7.

Question 5.

Solution:

(b) 133 + 28 ÷ 7 – 8 x 2

= 133 + 4 – 16

= 137 – 16

= 121.

Question 6.

Solution:

(a) 3640 – 14 ÷ 7 x 2

= 3640 – 2 x 2

= 3640 – 4

= 3636.

Question 7.

Solution:

(b) 100 x 10 – 100 + 2000 ÷ 100

= 1000 – 100 + 20

= 920.

Question 8.

Solution:

(b) $27-[18-\{16-(5-4-\overline{1})\}]$

= 27 – [18 – {16 – (5 – 4 + 1)}]

= 27 – [18 – {16 – 5 + 4 – 1}]

= 27 – [18 – 16 + 5 – 4 + 1]

= 27 – 18 + 16 – 5 + 4 – 1

= 23

Question 9.

Solution:

$32-[48\div\{36-(27-16-\overline{9\quad\quad\quad\quad}\,)\}]$

= 32 – [48 ÷ {36 – (27 – 16 + 9)}]

= 32 – [48 ÷ {36 – 27 + 16 – 9}]

= 32 – [48 ÷ 16]

= 32 – 3

= 29

Question 10.

Solution:

(a) 8 – [28 ÷ {34 – (36 – 18 ÷ 9 x 8)}]

$8-[28\div\{34-(36-18\times19\times8)\}]$

= 8 – [28 ÷ {34 – (36 – 16)}]

= 8 – [28 ÷ {34 – 20}]

= 8 – {28 ÷ 14}

= 8 – 2

= 6.

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- Chapter 2–Factors and Multiples
- Chapter 3–Whole Numbers
- Chapter 4–Integers
- Chapter 5–Fractions
- Chapter 6–Simplification
- Chapter 7–Decimals
- Chapter 8–Algebraic Expressions
- Chapter 9–Linear Equations in One Variable
- Chapter 10–Ratio, Proportion and Unitary Method
- Chapter 11–Line Segment, Ray and Line
- Chapter 12–Parallel Lines
- Chapter 13–Angles and Their Measurement
- Chapter 14–Constructions (Using Ruler and a Pairs of Compasses)
- Chapter 15–Polygons
- Chapter 16–Triangles
- Chapter 17–Quadrilaterals
- Chapter 18–Circles
- Chapter 19–Three-Dimensional Shapes
- Chapter 20–Two-Dimensional Reflection Symmetry (Linear Symmetry)
- Chapter 21–Concept of Perimeter and Area
- Chapter 22–Data Handling
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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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