

RD SHARMA

Solutions

Class 6 Maths

Chapter 1

Ex 1.7

Q1. Estimate the following by rounding off each factor to nearest hundreds:

i) $730 + 998$

ii) $796 - 314$

iii) $875 - 384$

Sol :

i) $700 + 1000 = 1700$

ii) $800 - 300 = 500$

iii) $900 - 400 = 500$

Q2. Estimate the following by rounding off each factor to nearest thousands:

i) $12904 + 2888$

ii) $28292 - 21496$

Sol :

i) $13000 + 3000 = 16000$

ii) $28000 - 21000 = 7000$

Q3. Estimate the following by rounding off each number to its greatest place:

i) $439 + 334 + 4317$

ii) $8325 - 491$

iii) $108734 - 47599$

iv) 898×785

v) 9×795

vi) 87×317

Sol :

i) $400 + 300 + 4000 = 4700$

ii) $8000 - 500 = 7500$

iii) $100000 - 500000 = 50000$

iv) $900 \times 800 = 720000$

v) $10 \times 800 = 8000$

vi) $90 \times 300 = 27000$

Q4. Find the estimated quotient for each of the following by rounding off each number to its greatest place :

i) $878 \div 28$

ii) $745 \div 24$

iii) $4489 \div 394$

Sol :

i) $900 \div 30 = 30$

ii) $700 \div 20 = 35$

iii) $4000 \div 400 = 10$

Exercise 1.8

Q1. Write the expression for each of the following statements using brackets :

i) Four multiplied by the sum of 13 and 7

ii) Eight multiplied by the difference of four from nine.

iii) Divide the difference of twenty eight and seven by 3.

The sum of 3 and 7 in multiplied by the difference of twelve and eight.

Sol :

i) $4 \times (13 + 7)$

ii) $8 \times (9 - 4)$

iii) $\frac{28-7}{3}$

iv) $(3 + 7) \times (12 - 8)$

Q2. Simplify each of the following :

i) $124 - (12 - 2) \times 9$

ii) $(13 + 7) \times (9 - 4) - 18$

iii) $210 - (14 - 4) \times (18 + 2) - 10$

Sol :

i) 34

ii) 82

iii) 0

Exercise 1.9

Q1) Simplify each of the following :

i) 7×109

ii) 6×112

iii) 9×105

iv) 17×109

v) 16×108

vi) 12×105

vii) 102×103

viii) 101×105

ix) 109×107

Sol :

i) 763

ii) 672

iii) 945

iv) 1853

v) 1728

vi) 1260

vii) 10506

viii) 10605

ix) 11663

Exercise 1.10

Q1) Write the roman – numerals for each of the following:

i) 33

ii) 48

iii) 76

iv) 95

Sol :

i) XXXIII

ii) XLVIII

iii) LXXVI

iv) XCV

Q2) Write the following in roman numerals:

i) 154

ii) 173

iii) 248

iv) 319

SOL :

- i) CLIV
- ii) CLXXIII
- iii) CCXLVIII
- iv) CCCXIX

Q3) Write the following in roman numerals:

- i) 1008
- ii) 2718
- iii) 3906
- iv) 3794

SOL :

- i) KVIII
- ii) KKDCCXVIII
- iii) KKKCKVI
- iv) KKKDCCXCIV

Q4) Write the following in roman numerals :

- i) 4201
- ii) 10009
- iii) 44000
- iv) 25819

SOL :

- i) $\overline{IV} \text{ CCI}$
- ii) \overline{XIX}
- iii) \overline{XLIV}
- iv) $\overline{XXV} \text{ DCCCXIX}$

Q5) Write the following in Hindu – Arabic numerical:

- i) XXVI
- ii) XXIX
- iii) LXXII
- iv) XCI

SOL :

- i) 26
- ii) 29
- iii) 72
- iv) 91

Q6) Write the corresponding Hindu – Arabic numerical for each of the following :

- i) CIX
- ii) CLXXII
- iii) CCLIV
- iv) CCCXXIX

SOL :

- i) 109
- ii) 172
- iii) 254
- iv) 329

Q7) Write the corresponding Hindu – Arabic numerical for each of the following :

- i) KXIX

ii) KDLXV

iii) KKCXXIII

iv) KKKDCXL

SOL :

i) 1019

ii) 1565

iii) 2123

iv) 3640

Q8) Write the following in Hindu – Arabic numerical :

i) \overline{IV} CDXLIV

ii) \overline{VI} CKXLIX

iii) \overline{IX} CCCXCI

iv) \overline{LXXIX}

SOL :

i) 4444

ii) 6949

iii) 9391

iv) 70009

Q9) Which of the following is meaningless ?

i) \overline{IIIC}

ii) KKKCCXI

iii) XD

iv) VC

SOL : (i) and (iii) are meaningless.