

Explore Math – Class- 4

Chapter 1 : Exercise 1

- A. 1. fifty thousand three hundred nineteen 2. twenty-one thousand seven hundred eighty-three 3. nineteen thousand seven hundred sixty-four 4. twenty-eight thousand five hundred ninety-nine 5. eighty seven thousand three hundred 6. one lakh thirty-two thousand five hundred forty-nine 7. one lakh two hundred ten 8. seven lak fifty thousand one 9. two lakh thirteen thousand four hundred thirty two 10. eight lakhs forty-five thousand three hundred twenty
- B. 1. 20,300 2. 55,403 3. 78,617 4. 45,275 5. 66,666
- C. 1. Smallest 5-digit number – 10,000 ten thousand Largest 5-digit number – 99,999 ninety-nine thousand nine hundred ninety-nine 2. Smallest 6-digit number – 1,00,000 one lakh Largest 6-digit number – 9,99,999 nine lakh ninety-nine thousand nine hundred ninety-nine
- D. Do it yourself. E. Do it yourself.

Exercise 2

- A. 1. 95,783 2. 2,39,876 3. 41,52,609 4. 2,09,003 5. 5,690
- B. 1. 400, 4, ones 2. 60,000, 6, thousands 3. 500, 5, ones 4. 9, 9, Ones 5. 3,00,000, 3, lakhs
- C. 1. $1,00,000 + 90,000 + 1,000 + 300 + 30 + 42$.
 $1,00,000 + 30,000 + 4000 + 700 + 90 + 83$. $1,00,000 + 70,000 + 9000 + 500 + 90 + 04$. $3,00,000 + 50,000 + 6000 + 700 + 30 + 25$. $4,00,000 + 60,000 + 200 + 10 + 6$
- D. 1. 2,32,341 2. 52,408 3. 1,03,333 4. 8,20,945 5. 8,73,727
- E. 1. 4000 2. 4 3. 400 4. 4,00,000 5. 40
- F. 1 G. 5940

Exercise 3

- A. 1. $< 2. > 3. > 4. < 5. > 6. < 7. < 8. < 9. > 10. <$
- B. 1. 14,560; 23,567; 35,803; 45,098; 90,800 2. 44,451; 44,512; 45,080; 45,807; 45,900 3. 10,200; 12,000; 20,001; 20,100; 21,010 4. 1,23,098; 2,08,789; 4,52,710; 7,34,642; 9,20,743 5. 1,06,732; 2,60,912; 2,79,021; 3,45,601; 5,60,634 6. 3,36,097; 3,40,753; 3,45,098; 3,67,908; 3,81,523
- C. 1. 63,538; 43,568; 23,586; 13,500 2. 15,209; 14,390; 10,403; 10,309; 10,209 3. 67,567; 67,243; 67,198; 67,169; 67,098 4. 9,70,432; 8,67,190; 5,12,065; 3,56,309; 2,30,584 5. 1,45,705; 1,32,189; 1,32,098; 1,29,000; 1,28,717 6. 9,67,902; 9,67,345; 9,63,562; 9,63,098; 9,61,732
- D. 1. 24,368 2. 89,077 3. 12,601 4. 20,000 5. 29,010 6.

1,56,891 7. 2,77,000

8. 9,90,100 9. 4,69,010 10. 6,66,700

E. 1. 89,004 2. 79,999 3. 54,141 4. 23,899 5. 78,009 6. 1,68,899 7. 8,95,079

8. 4,55,999 9. 2,35,209 10. 99,999

F. 1. 12,379 2. 97,321 G. 1. 146789 2. 987641

Exercise 4

A. 1. one hundred sixty-three thousand nine hundred sixty-one 2. three hundred twenty-eight thousand five hundred forty-two 3. three hundred forty-nine thousand eight hundred twenty-six 4. three hundred eighty-four thousand two hundred eighty-eight 5. nine hundred thirty-three thousands seven hundred seventy-eight

6. three hundred eighty-seven thousand seven hundred sixty six 7. seven hundred eighty-four thousand six hundred ninety-four 8. eight hundred eighty three thousand six hundred seventy-three

B. 1. 237,795 2. 75,856 3. 311,175 4. 37,265 5. 75,695

C. 1. 964311 2. 944333 3. 887541 4. 988775 5. 975444

Exercise 5

A. 1. 9 2. 58 3. 75 4. 79 5. 60 6. 86 7. 61 8. 71 9. 58 10. 52

B. 1. LXIV 2. XXXVIII 3. XLVII 4. IV 5. XCV

6. V 7. XXX 8. LXVIII 9. LXXXI 10. VIII

C. 1. (c) 2. (e) 3. (d) 4. (b) 5. (a) b

Chapter 2 : Exercise 1

A. 1. 8907 2. 5436 3. 9071 4. 8366 5. 8223 6. 7912 7. 5202 8. 1614 29. 34702

Exercise 2

A. 1. 595258 2. 989843 3. 910084 4. 700709
5. 399455 6. 231497 7. 999993 8. 783093 9. 428454
10. 746362

B. 1. 85593 2. 178891 3. 113337 4. 250088
5. 172071 6. 161130 7. 218056 8. 1232689. 205525
10. 129167

Exercise 3

A. 1. 32,560 2. 10,000 3. 2,10,510; 1,20,451
4. 23,320 5. 12,310 6. 0

Exercise 4

A. 1. 495 2. 1458 3. 169 4. 4803 5. 2837 6. 7153 7. 1908 8. 10729. 309

Exercise 5

A. 1. 43133 2. 31313 3. 74538 4. 325555. 43362 6. 56221

- B. 1. 28300 2. 52954 3. 291 4. 444205. 8042 6. 8332
 C. 1. 335426 2. 323033 3. 721952 4. 183947
 5. 86448 6. 60547
 D. 1. 13,105 2. 7,901 3. 15,639 4. 27,7285. 57,925 6.
 74,922 7. 38,03,8108. 14,28,753 9. 7,68,520 10. 8,593

Chapter 3 : Exercise 1

- A. 1.32895 2. 119352 3. 226331 4. 73948
 B. 1. 0 2. 475 3. 23 4. 283 5. 0
 C. 1.950 2. 12300 3. 730 4. 200 5. 4800

Exercise 2

- A. 1. 23 2. 0 3. 4273 4. 4132 5. 326. 65 7. 273 8. 42 9.
 1 10. 0
 B. 1. 4536 2. 14168

Exercise 3

- A. 1. 26,199 2. 2,06,615 3. 2,32,9564. 1,60,576 5.
 3,76,614 6. 3,04,8767. 5,41,750 8. 13,14,456 9.
 6,98,14510. 25,58,226
 B. 9,99,900 C. 99,89,001

Exercise 4

- A. 1. 1,19,250 2. 2,76,640 3. 21,5204. 2,22,750 5.
 45,625 6. 1,01,7487. 10,850 8. 2,20,150 9. 41,58010.
 1,71,550

Chapter 4 : Exercise 1

- A. 1. 27 2. 118 3. 54 4. 99 5. 139
 B. 1. Q = 20, R = 13 2. Q = 13, R = 103. Q = 44, R = 3 4.
 Q = 35, R = 145. Q = 31, R = 12 6. Q = 110, R = 77. Q =
 88, R = 27 8. Q = 179, R = 14
 C. 1. Q = 2949, R = 16 2. Q = 1218, R = 83. Q = 4385, R
 = 6 4. Q = 1551, R = 25. Q = 1144, R = 3

Exercise 2

- A. 1. 30 2. 60 3. 140 4. 270 5. 1430
 B. 1. 100 2. 700 3. 1500 4. 3000 5. 1000
 C. 1. 20000 2. 4000 3. 3000 4. 400005. 20000

Exercise 3

- A. 1. 252 seeds 2. ` 56 3. 113 sheets
 4. 32 bottles 5. 15 teams 6. 322 apples

Chapter 5 : Exercise 1

- A. To be filled by students.
 B. 1. Common multiples – 12, 242. Common multiples
 – 24, 48
 C. 28 D.14, 21, 28, 42, 49
 E. To be done by students.
 F. 1. 18 2. 30 3. 30 4. 30 5. 6006. 60 7. 90 8. 300 9. 180
 10. 360

Exercise 2

- A. To be done by students.
 B. 1. 3, 6 2. 2, 3, 9 3. 3, 6, 10, 304. 1, 7, 9, 21 5. 1, 4, 5,

- 10, 20, 40
 C. 1. 1, 2 2. 1, 2, 5, 10 3. 1, 5 4. 1, 25. 1, 2, 3, 6

Exercise 3

- A. 1. 1, 3 2. 1, 2, 3, 6 3. 1, 2, 5, 10
 4. 1, 5 5. 1, 5 6. 1, 3, 9
 7. 1, 5 8. 1, 3
 9. 1, 2, 3, 4, 6, 12 10. 1, 5
 B. 1. 4 2. 5 3. 7 4. 2 5. 2 6. 37. 3 8. 2 9. 6 10. 5

Chapter 6 : Exercise 1

- A. To be done by students.
 B. To be done by students.
 C. 1. Two 2. Two 3. Three 4. 97 5. 4

Exercise 2

- A. 1. $2 \times 2 \times 5 \times 5$ 2. $2 \times 2 \times 3 \times 113$. $2 \times 2 \times 3 \times 3 \times 3$ 4.
 $2 \times 2 \times 3 \times 55$. $3 \times 3 \times 11$ 6. $2 \times 2 \times 2 \times 2 \times 5$
 B. 1. $2 \times 2 \times 7$ 2. $2 \times 2 \times 53$. 3×19 4. 2×415 . $2 \times 2 \times 2$
 $\times 3 \times 3$ 6. $2 \times 3 \times 137$. $2 \times 2 \times 2 \times 2$ 8. 2×59 . $2 \times 2 \times 2$
 $\times 3 \times 5$ 10. $2 \times 3 \times 3 \times 3$

Exercise 3

- A. 1. 15 2. 15 3. 4 4. 8 5. 15 6. 127. 65 8. 22 9. 2 10. 21
 B. 1. 1, Coprime nos. 2.15 3. 1, Coprime nos
 4. 1, Coprime nos 5.1, Coprime nos

Exercise 4

- A. 1. 252 2. 60 3. 72 4. 56 5. 48
 6. 600 7. 36 8. 360 9. 144 10. 100

Chapter 2 : Exercise 1

- A. 1. $\frac{5}{7}$ 2. $\frac{23}{40}$ 3. $\frac{3}{8}$ 4. $\frac{17}{24}$ 5. $\frac{1}{3}$

- B. 1. One half 2. One fourth 3. One third
 4. Two third 5. Three fourth 6. One fifth 7. Four fifth 8.
 One tenth 9. Nine fifth
 10. Two fifth

- C. To be done by students.

Exercise 2

- A. To be done by students.
 B. 1. Yes 2. No 3. No 4. No 5. Yes

Exercise 3

- A. 1. i. $\frac{1}{8}$ ii. $\frac{2}{4}$ iii. $\frac{2}{11}$ iv. $\frac{6}{7}$ v. $\frac{2}{9}$
 2. i. $\frac{3}{5}$ ii. $\frac{2}{3}$ iii. $\frac{7}{8}$ iv. $\frac{6}{7}$ v. $\frac{5}{12}$
 B. 1. $\frac{9}{40}$ 2. $\frac{8}{23}$ 3. $\frac{12}{19}$ 4. $\frac{11}{35}$ 5. $\frac{3}{20}$
 C. 1. $\frac{5}{14}$ 2. $\frac{1}{40}$ 3. $\frac{1}{2}$ 4. $\frac{3}{4}$ 5. $\frac{8}{19}$
 D. 1. $\frac{1}{5}$ 2. $\frac{3}{4}$ 3. $\frac{1}{21}$ 4. $\frac{29}{31}$ 5. $\frac{2}{5}$

6. No 7. Yes 8. No
 C. 1.3 2.20 3.42 4.49 5.18 6.16 7.14 8.5

Exercise 4

A. 1. 2. 4.

B. To be done by students.

C. 1. ü 2. ü 3. û 4. ü 5. û

D. 2. 3. 4. 7. 9. 10.

Exercise 5

A. 1. $\frac{4}{6}$ 2. $\frac{4}{9}$ 3. $\frac{2}{4}$ 4. $\frac{3}{5}$ 5. $\frac{2}{3}$ 6. $\frac{2}{8}$
7. $\frac{2}{3}$ 8. $\frac{4}{6}$ 9. $\frac{9}{32}$ 10. $\frac{15}{18}$

B. 1. $\frac{1}{5}$ 2. $\frac{3}{9}$ 3. $\frac{1}{7}$ 4. $\frac{1}{3}$ 5. $\frac{1}{6}$ 6. $\frac{33}{39}$
7. $\frac{1}{34}$ 8. $\frac{3}{32}$ 9. $\frac{2}{32}$ 10. $\frac{5}{12}$

C. 1. < 2. > 3. < 4. > 5. >

D. 1. $\frac{3}{4} < \frac{7}{8} < \frac{9}{10}$ 2. $\frac{5}{8} < \frac{7}{10} < \frac{3}{4}$

3. $\frac{5}{15} < \frac{5}{6} < \frac{1}{5}$ 4. $\frac{3}{5} < \frac{7}{10} < \frac{3}{4}$

5. $\frac{7}{12} < \frac{3}{4} < \frac{5}{6}$

E. 1. $\frac{5}{6} > \frac{2}{3} > \frac{1}{2}$ 2. $\frac{4}{5} > \frac{3}{4} > \frac{7}{10}$

3. $\frac{9}{14} > \frac{11}{35} > \frac{2}{7}$ 4. $\frac{4}{6} > \frac{6}{12} > \frac{3}{8}$

5. $\frac{5}{6} > \frac{6}{8} > \frac{3}{8}$

Exercise 6

A. 1. $\frac{7}{6}$ 2. $\frac{1}{7}$ 3. $\frac{5}{7}$ 4. $\frac{3}{4}$ 5. $\frac{2}{3}$ 6. $\frac{9}{10}$

7. $\frac{5}{7}$ 8. $\frac{5}{6}$ 9. $\frac{2}{3}$ 10. $\frac{11}{12}$

B. 1. $\frac{2}{11}$ 2. $\frac{1}{2}$ 3. $\frac{2}{9}$ 4. $\frac{1}{3}$ 5. $\frac{1}{5}$

6. $\frac{1}{6}$ 7. $\frac{2}{5}$ 8. $\frac{1}{8}$ 9. $\frac{5}{7}$ 10. 1

C. 1. $5\frac{1}{2}$ 2. $7\frac{3}{7}$ 3. $7\frac{3}{5}$ 4. 9 5. $4\frac{5}{7}$

D. 1. $1\frac{2}{7}$ 2. $2\frac{1}{3}$ 3. $2\frac{1}{3}$ 4. $1\frac{1}{5}$ 5. $4\frac{2}{11}$

Exercise 7

A. 1. $3\frac{6}{25}$ 2. $1\frac{15}{112}$ 3. $1\frac{9}{130}$ 4. $\frac{26}{45}$ 5. $\frac{8}{9}$

6. $\frac{17}{21}$ 7. $\frac{15}{22}$ 8. $1\frac{1}{14}$ 9. $\frac{32}{45}$ 10. $\frac{17}{21}$

B. 1. $\frac{1}{12}$ 2. $\frac{9}{110}$ 3. $\frac{5}{15}$ 4. $\frac{1}{12}$

5. $\frac{31}{60}$ 6. $\frac{5}{42}$ 7. $\frac{1}{18}$ 8. $\frac{7}{22}$
 9. $\frac{17}{175}$ 10. $\frac{23}{84}$
 C. 1. $32\frac{9}{10}$ 2. $23\frac{7}{36}$ 3. $8\frac{11}{12}$ 4. $2\frac{17}{35}$
 5. $7\frac{1}{2}$
 D. 1. 15 2. $9\frac{5}{6}$ 3. $16\frac{1}{40}$ 4. $7\frac{5}{6}$ 5. $\frac{5}{6}$

Exercise 8

- A. 1. $1\frac{4}{5}$ 2. $\frac{4}{9}$ 3. $6\frac{2}{5}$ 4. $1\frac{2}{3}$
 5. $15\frac{1}{5}$ 6. $3\frac{3}{4}$ 7. $1\frac{9}{11}$ 8. $2\frac{1}{3}$
 9. 10 10. $13\frac{3}{10}$
 B. 1. $8\frac{2}{3}$ 2. $6\frac{3}{4}$ 3. 84 4. 45 5. $10\frac{2}{3}$
 C. To be done by students.
 D. 1. $\frac{4}{35}$ 2. $\frac{1}{28}$ 3. $\frac{7}{120}$ 4. $\frac{1}{9}$ 5. $\frac{1}{12}$ 6. $\frac{1}{40}$
 7. $\frac{5}{18}$ 8. $\frac{1}{24}$ 9. $\frac{3}{10}$ 10. $\frac{1}{27}$

Chapter 7 : Exercise 1

- A. 1. Four tenths
 2. One hundred ninety six and thirty-nine thousandths
 3. Fifteen and forty-two hundredths
 4. Twelve and six-hundred five thousandths
 5. Three hundred twenty-seven and five tenths
 B. 1. Ten point one eight
 2. Seven point zero seven seven
 3. Thirty lakh seventy-four thousand fourteen point one three nine seven
 4. Five hundred forty five point zero zero one
 5. Two thousand four point zero two
 C. 1. 0.6 2. 19.019 3. 56700.0822
 4. 9610.03 5. 777.07 6. 0.0077
 Exercise 2
 A. 1. 3.1 2. 4.35 3. 7.268 4. 0.389
 5. 0.37 6. 9.0064
 B. To be done by students.
 C. 1. Eight tenths 2. Eight hundredths
 3. Eight thousandths 4. Eight ten thousandths
 Exercise 3

- A. 1. 1.92 2. 7.50 3. 87.76 4. 1.56
 5. 164.304
 B. 1. $4.7 > 4.07$ 2. $1.6 < 6.1$
 3. $3.01 < 3.09$ 4. $3.06 < 3.60$
 5. $85.58 < 58.85$ 6. $5.45 > 5.405$
 7. $1.600 = 1.6$ 8. $85.51 > 83.31$
 C. 1. 2.03, 2.3, 3.02, 3.2, 3.302
 2. 5.069, 5.6, 5.906, 9.05
 3. 23.056, 23.56, 23.650, 32.506, 32.6
 4. 8.99, 17.099, 17.509, 17.905, 17.99
 5. 1.009, 1.090, 1.099, 10.90, 11.90

Exercise 4

- A. 1. 0.6 2. 0.75 3. 0.4 4. 0.2 5. 0.4
 6. 0.48 7. 2.28 8. 5.4
 B. 1. $\frac{357}{100}$ 2. $\frac{233}{50}$ 3. $\frac{57}{200}$ 4. $\frac{187}{100}$ 5. $\frac{39}{100}$
 6. $\frac{3}{8}$ 7. $\frac{49}{20}$ 8. $\frac{51}{4}$

Exercise 5

- A. 1. 4.890 2. 1.762 3. 42.94 4. 42.59
 5. 100.181 6. 35.27 7. 421.42 8. 1879.94
 B. 1. 6.70 2. 0.781 3. 7.466 4. 31.509
 5. 16.38 6. 0.16 7. 10.936 8. 85.75
 C. 1. 1.088 kg 2. 554.93 km 3. Gary 4. 16.4 m
 5. 3.6 min 6. 3.55 litres

Chapter 8: Exercise 1

- A. 1. 10 2. 40 3. 30 4. 20 5. 70
 6. 40 7. 100 8. 70 9. 80 10. 10
 B. 1. 90 2. 50 3. 60 4. 120 5. 350
 6. 510 7. 770 8. 2670
 C. 1. 800 2. 300 3. 500 4. 100 5. 600
 6. 1000 7. 800 8. 3000
 D. 1. 10,000 2. 3000 3. 5000 4. 5000
 5. 14,000 6. 26,000
 E. 1. 290, 300 2. 3980, 4000 3. 4670, 4700
 4. 600, 600 5. 9710, 9700

Exercise 2

- A. 1. 510 2. 1220 3. 700 4. 1560 5. 620
 6. 680 7. 1430 8. 770
 B. 1. 130 2. 90 3. 150 4. 70 5. 30
 6. 60 7. 50 8. 40

Chapter 9 : Exercise 1

- A. 1. 500 g 2. 2000 g 3. 350 g 4. 200 g
 5. 1500 ml 6. 600 ml

B. 1. 23000 m 2. 0.679 3. 2345 4. 6780
5. 1200 6. 2750 7. 56000 8. 239.8888
C. 1. 560 dg 2. 0.45 kg 3. 34500 dg
4. 56.7 kg 5. 230000 dg 6. 40 kg 7. 2320 dag 8. 340034
mg
D. 1. 130 ml 2. 218.77 dl 3. 345.0 l 4. 9813 cl
5. 1.2 dal 6. 450000 cl 7. 7.090 dal
8. 15231 dl
Exercise 2
C. 1. 13 km 7 m 2. 47 km 308 m 3. 3501 km 200 m 4.
75 km 85 m 5. 142 km 100 m
6. 90 km 30 m 7. 750 km 750 m
8. 950 km 500 m 9. 101 km 83 m
D. 1. 149 km 450 m 2. 408 km 100 m
3. 104 km 950 m 4. 20 km 05 m 5. 7 km 13 m 6. 8 km
45 m
E. 1. 21 l 595 ml 2. 38 l 455 ml

3. 3 l 772 ml 4. 23 l 237 ml 5. 36 l 550 ml 6. 5 l 621 ml
F. 1. 1 l 779 ml 2. 6 l 222 ml 3. 16 l 205 ml 4. 4 l 204
ml 5. 10 l 519 ml 6. 2 l 240 ml
G. 1. 6 kg 961 g 2. 5 kg 532 g 3. 12 kg 922 g 4. 19 kg
032 g 5. 38 kg 386 g 6. 41 kg 428 g
H. 1. 12 kg 085 g 2. 3 kg 178 g 3. 4 kg 772 g 4. 5 kg 348
g 5. 8 kg 093 g 6. 3 kg 268 g
Exercise 3
A. 1. 282 kg 480 g 2. 618 l 800 ml 3. 549 km 472 m 4.
381 km 960 m 5. 435 kg 200 g 6. 91 l 380 ml
B. 1. 5 l 2 ml 2. 3 km 76 m 3. 6 kg 20 g 4. 51 km 130
m 5. 53 kg 90 g 6. 60 km 124 m