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**Class –VI Mathematics (Ex. 1.1)**

**Questions**

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1. Fill in the blanks:
    - (a) 1 lakh = \_\_\_\_\_ ten thousand
    - (b) 1 million = \_\_\_\_\_ hundred thousand
    - (c) 1 crore = \_\_\_\_\_ ten lakh
    - (d) 1 crore = \_\_\_\_\_ million
    - (e) 1 million = \_\_\_\_\_ lakh
  
  2. Place commas correctly and write the numerals:
    - (a) Seventy-three lakh seventy-five thousand three hundred seven.
    - (b) Nine crore five lakh forty-one.
    - (c) Seven crore fifty-two lakh twenty-one thousand three hundred two.
    - (d) Fifty-eight million four hundred twenty-three thousand two hundred two.
    - (e) Twenty-three lakh thirty thousand ten.
  
  3. Insert commas suitable and write the names according to Indian system of numeration:
    - (a) 87595762
    - (b) 8546283
    - (c) 99900046
    - (d) 98432701
  
  4. Insert commas suitable and write the names according to International system of numeration:
    - (a) 78921092
    - (b) 7452283
    - (c) 99985102
    - (d) 48049831
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**Class –VI Mathematics (Ex. 1.1)**

**Answers**

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1. (a) 10 (b) 10  
(c) 10 (d) 10  
(e) 10
  2. (a) 73,75,307 (b) 9,05,00,041  
(c) 7,52,21,302 (d) 58,423,202  
(e) 23,30,010
  3. (a) 8,75,95,762 → Eight crore seventy-five lakh ninety-five thousand seven hundred sixty-two  
(b) 85,46,283 → Eight-five lakh forty-six thousand two hundred eighty-three  
(c) 9,99,00,046 → Nine crore ninety-nine lakh forty-six  
(d) 9,84,32,701 → Nine crore eighty-four lakh thirty-two thousand seven hundred one
  4. (a) 78,921,092 → Seventy-eight million nine hundred twenty-one thousand ninety-two  
(b) 7,452,483 → Seven million four hundred fifty-two thousand two hundred eighty-three  
(c) 99,985,102 → Ninety-nine million nine hundred eighty-five thousand one hundred two  
(d) 48,049,831 → Forty-eight million forty-nine thousand eight hundred thirty-one
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### Class –VI Mathematics (Ex. 1.2)

#### Questions

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1. A book exhibition was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectively 1094, 1812, 2050 and 2751. Find the total number of tickets sold on all the four days.
  2. Shekhar is a famous cricket player. He has so far scored 6980 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need?
  3. In an election, the successful candidate registered 5,77,500 votes and his nearest rival secured 3,48,700 votes. By what margin did the successful candidate win the election?
  4. Kirti Bookstore sold books worth ₹ 2,85,891 in the first week of June and books worth ₹ 4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?
  5. Find the difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once.
  6. A machine, on an average, manufactures 2,825 screws a day. How many screws did it produce in the month of January 2006?
  7. A merchant had ₹ 78,592 with her. She placed an order for purchasing 40 radio sets at ₹ 1,200 each. How much money will remain with her after the purchase?
  8. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?
  9. To stitch a shirt 2 m 15 cm cloth is needed. Out of 40 m cloth, how many shirts can be stitched and how much cloth will remain?
  10. Medicine is packed in boxes, each weighing 4 kg 500 g. How many such boxes can be loaded in a van which cannot carry beyond 800 kg?
  11. The distance between the school and the house of a student's house is 1 km 875 m. Everyday she walks both ways. Find the total distance covered by her in six days.
  12. A vessel has 4 liters and 500 ml of curd. In how many glasses each of 25 ml capacity, can it be filled?
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**Class –VI Mathematics (Ex. 1.2)**

**Answers**

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1. Number of tickets sold on first day = 1,094  
Number of tickets sold on second day = 1,812  
Number of tickets sold on third day = 2,050  
Number of tickets sold on fourth day = + 2,751  
Total tickets sold = 7,707  
Therefore, 7,707 tickets were sold on all the four days.
2. Runs to achieve = 10,000  
Runs scored = - 6,980  
Runs required = 3,020  
Therefore, he needs 3,020 more runs.
3. Number of votes secured by successful candidates = 5,77,500  
Number of votes secured by his nearest rival = - 3,48,700  
Margin between them = 2,28,800  
Therefore, the successful candidate won by a margin of 2,28,800 votes.
4. Books sold in first week = 2,85,891  
Books sold in second week = + 4,00,768  
Total books sold = 6,86,659  
Since, 4,00,768 > 2,85,891  
Therefore sale of second week is greater than that of first week.  
Books sold in second week = 4,00,768  
Books sold in first week = - 2,85,891  
More books sold in second week = 1,14,877  
Therefore, 1,14,877 more books were sold in second week.
5. Greatest five-digit number using digits 6,2,7,4,3 = 76432  
Smallest five-digit number using digits 6,2,7,4,3 = - 23467  
Difference = 52965  
Therefore the difference is 52965.
6. Number of screws manufactured in one day = 2,825  
Number of days in the month of January (31 days) = 2,825 x 31  
= 87,575  
Therefore the machine produced 87,575 screws in the month of January.
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7. Cost of one radio = ₹ 1200  
 Cost of 40 radios =  $1200 \times 40$  = ₹ 48,000  
 Now, Total money with merchant = ₹ 78,592  
 Money spent by her = – ₹ 48,000  
 Money left with her = ₹ 30,592  
 Therefore, ₹ 30,592 will remain with her after the purchase.

8. Wrong answer =  $7236 \times 65$                       Correct answer =  $7236 \times 56$
- |   |   |
|---|---|
| $\begin{array}{r} 7236 \\ \times 65 \\ \hline 36180 \\ 43416 \times \\ \hline 470340 \end{array}$ | $\begin{array}{r} 7236 \\ \times 56 \\ \hline 43416 \\ 36180 \times \\ \hline 405216 \end{array}$ |
|---|---|

Difference in answers =  $470340 - 405216$   
 = 65,124

9. Cloth required to stitch one shirt = 2 m 15 cm  
 =  $2 \times 100 \text{ cm} + 15 \text{ cm}$   
 = 215 cm  
 Length of cloth = 40 m =  $40 \times 100 \text{ cm} = 4000 \text{ cm}$   
 Number of shirts can be stitched =  $4000 \div 215$

$$\begin{array}{r} 18 \\ 215 \overline{) 4000} \\ \underline{- 215} \phantom{00} \\ 1850 \\ \underline{- 1720} \phantom{00} \\ 130 \end{array}$$

Therefore, 18 shirts can be stitched and 130 cm (1 m 30 cm) cloth will remain.

10. The weight of one box = 4 kg 500 g =  $4 \times 1000 \text{ g} + 500 \text{ g} = 4500 \text{ g}$   
 Maximum load can be loaded in van = 800 kg =  $800 \times 1000 \text{ g} = 800000 \text{ g}$   
 Number of boxes =  $800000 \div 4500$
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$$\begin{array}{r}
 177 \\
 4500 \overline{) 800000} \\
 \underline{-4500} \\
 35000 \\
 \underline{-31500} \\
 35000 \\
 \underline{-31500} \\
 3500
 \end{array}$$

Therefore, 177 boxes can be loaded.

11. Distance between school and home = 1.875 km  
 Distance between home and school = + 1.875 km  
 Total distance covered in one day = 3.750 km  
 Distance covered in six days =  $3.750 \times 6 = 22.500$  km  
 Therefore, 22 km 500 m distance covered in six days.

12. Capacity of curd in a vessel = 4 liters 500 ml =  $4 \times 1000$  ml + 500 ml = 4500 ml  
 Capacity of one glass = 25 ml  
 Number of glasses can be filled =  $4500 \div 25$

$$\begin{array}{r}
 180 \\
 25 \overline{) 4500} \\
 \underline{-25} \\
 200 \\
 \underline{-200} \\
 0
 \end{array}$$

Therefore, 180 glasses can be filled by curd.

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**Class -VI Mathematics (Ex. 1.3)**

**Questions**

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1. Estimate each of the following using general rule:
    - (a)  $730 + 998$
    - (b)  $796 - 314$
    - (c)  $12,904 + 2,888$
    - (d)  $28,292 - 21,496$
  
  2. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):
    - (a)  $439 + 334 + 4317$
    - (b)  $1,08,737 - 47,599$
    - (c)  $8325 - 491$
    - (d)  $4,89,348 - 48,365$
  
  3. Estimate the following products using general rule:
    - (a)  $578 \times 161$
    - (b)  $5281 \times 3491$
    - (c)  $1291 \times 592$
    - (d)  $9250 \times 29$
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**Class –VI Mathematics (Ex. 1.3)**

**Answers**

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1. (a) 730 round off to 700  
998 round off to 1000  
Estimated sum = 1700
- (b) 796 round off to 800  
314 round off to 300  
Estimated sum = 500
- (c) 12904 round off to 13000  
2888 round off to 3000  
Estimated sum = 16000
- 28292 round off to 28000  
21496 round off to 21000  
Estimated difference = 7000
2. (a) 439 round off to 400  
334 round off to 300  
4317 round off to 4300  
Estimated sum = 5000
- (b) 108734 round off to 108700  
47599 round off to 47600  
Estimated difference = 61100
- (c) 8325 round off to 8300  
491 round off to 500  
Estimated difference = 7800
- (d) 489348 round off to 489300  
48365 round off to 48400  
Estimated difference = 440900
3. (a)  $578 \times 161$   
578 round off to 600  
161 round off to 200  
The estimated product =  $600 \times 200 = 1,20,000$
- (b)  $5281 \times 3491$   
5281 round of to 5,000  
3491 round off to 3,500  
The estimated product =  $5,000 \times 3,500 = 1,75,00,000$
- (c)  $1291 \times 592$   
1291 round off to 1300  
592 round off to 600  
The estimated product =  $1300 \times 600 = 7,80,000$
- (d)  $9250 \times 29$   
9250 round off to 10,000  
229 round off to 30  
The estimated product =  $10,000 \times 30 = 3,00,000$
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