

Large Numbers and Operations

Mathematics · Class 5 · Topic-wise Practice Worksheet

TIME 45 minutes	QUESTIONS 18	TOTAL MARKS 24	MAX. SCORE ___ / 24
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **18 questions** in this worksheet. All questions are compulsory.
- Each question has four options (A), (B), (C) and (D). Exactly **one** option is correct.
- Questions 1–15 carry **1 mark** each. Questions 16–18 (Achievers Section) carry **3 marks** each.
- There is no negative marking. Use of a calculator is **not** allowed.
- Rough work may be done in the space at the side of each page.

Section A — Mathematical Reasoning

Q1–Q8 · 1 mark each

- What is the place value of 5 in 45,86,203?

(A) 5,00,000
 (B) 50,000
 (C) 5
 (D) 5,00,00,000
- The smallest seven-digit number is _____.

(A) 10,00,000
 (B) 9,99,999
 (C) 1,00,000
 (D) 99,99,999
- In the international system, 1 million is equal to _____.

(A) 1 lakh
 (B) 1 crore
 (C) 10 lakh
 (D) 10 crore
- Estimate $4,876 \times 21$ by rounding each number to its nearest thousand and ten.

(A) 80,000
 (B) 50,000
 (C) 1,20,000
 (D) 1,00,000
- The Roman numeral for 90 is _____.

(A) XC
 (B) IC
 (C) LXXXX
 (D) CX
- Find the value of $96 \div 8 + 4 \times 3 - 5$.

(A) 12
 (B) 19
 (C) 31
 (D) 40
- A number divided by 47 gives a quotient of 23 and a remainder of 12. The number is _____.

(A) 1,069
 (B) 1,081
 (C) 1,093
 (D) 1,105
- 62,45,308 rounded off to the nearest lakh is _____.

(A) 60,00,000
 (B) 62,50,000
 (C) 63,00,000
 (D) 62,00,000

9. The table shows the number of visitors to four hill stations in a year. Which one had the **most** visitors?

Hill station	P	Q	R	S
Visitors	12,45,060	12,54,006	12,45,600	12,54,060

Table 9.1

- (A) P (B) Q
(C) R (D) S
10. A factory makes 1,250 bulbs a day. How many bulbs will it make in the month of June?
(A) 37,500 (B) 38,750
(C) 36,250 (D) 31,250
11. A charity collected ₹8,45,000 and distributed it equally among 25 villages. How much did each village receive?
(A) ₹32,800 (B) ₹33,800
(C) ₹34,800 (D) ₹35,800
12. A cinema hall sold 1,248 tickets on Saturday and 1,896 on Sunday. How many **more** tickets were sold on Sunday?
(A) 548 (B) 3,144
(C) 648 (D) 748
13. The population of a town is 2,45,678. Which of these is the correct way to say this number?
(A) Twenty-four lakh five thousand six hundred seventy-eight (B) Twenty-four thousand five hundred sixty-seven
(C) Two lakh four thousand five hundred sixty-seven (D) Two lakh forty-five thousand six hundred seventy-eight
14. Books are packed 48 to a carton. How many cartons are needed to pack 1,500 books?
(A) 30 (B) 31
(C) 32 (D) 72
15. Using the digits 7, 0, 4, 9 and 2 **once each**, what is the difference between the greatest and the smallest five-digit numbers that can be formed?
(A) 76,941 (B) 77,463
(C) 72,963 (D) 74,943

Achievers Section

Q16–Q18 · 3 marks each

16. Consider the following statements.
(i) The successor of the greatest five-digit number is the smallest six-digit number.
(ii) Zero is the identity for multiplication.
(iii) Dividing any non-zero number by itself gives 1.
Which of the statements is/are correct?
(A) (i) and (ii) only (B) (i) and (iii) only
(C) (ii) and (iii) only (D) All three

17. A shopkeeper bought 18 boxes of pens with 24 pens in each box, at ₹15 per pen. He sold all the pens for ₹8,000. How much profit did he make?
- (A) ₹1,520 loss (B) ₹1,520
(C) ₹520 (D) ₹2,480
18. A water tanker holds 12,500 litres. It fills 4 tanks of 2,250 litres each and the rest is stored in drums of 350 litres. How many **full** drums can be filled?
- (A) 9 (B) 10
(C) 11 (D) 12

Answer Key

1	A	2	A	3	C	4	D	5	A
6	B	7	C	8	D	9	D	10	A
11	B	12	C	13	D	14	C	15	A
16	B	17	B	18	B				

Solutions

1. Answer: (A) 5,00,000

In the Indian system, reading from the right the places are ones, tens, hundreds, thousands, ten thousands, lakhs and ten lakhs. The digit 5 sits in the **lakhs** place, so its place value is $5 \times 1,00,000 = \mathbf{5,00,000}$.

2. Answer: (A) 10,00,000

The largest six-digit number is 9,99,999, so the next number is the smallest seven-digit one: **10,00,000** (ten lakh).

3. Answer: (C) 10 lakh

1 million = 10,00,000, which is **10 lakh** in the Indian system. (100 million makes 10 crore.)

4. Answer: (D) 1,00,000

4,876 rounds to 5,000 and 21 rounds to 20.

$5,000 \times 20 = \mathbf{1,00,000}$. (The exact product, 1,02,396, is close to this estimate.)

5. Answer: (A) XC

When a smaller symbol is placed before a larger one we subtract, so **XC** = $100 - 10 = 90$. CX would be 110, and a symbol is never repeated more than three times.

6. Answer: (B) 19

Do division and multiplication before addition and subtraction.

$96 \div 8 = 12$ and $4 \times 3 = 12$.

$12 + 12 - 5 = \mathbf{19}$.

7. Answer: (C) 1,093

Dividend = Divisor $\times$ Quotient + Remainder

$= 47 \times 23 + 12$

$= 1,081 + 12 = \mathbf{1,093}$.

8. Answer: (D) 62,00,000

Look at the digit in the ten thousands place, which is 4. Since 4 is less than 5, we round down and keep the lakhs digit unchanged: **62,00,000**.

9. Answer: (D) S

All four begin with 12 lakh. Compare the ten thousands digit: 4, 5, 4 and 5, which leaves Q and S. Their thousands digits are both 4, so compare the hundreds: 0 for Q and 0 for S; then the tens: 0 for Q and 6 for S. So **S**, with 12,54,060, is the greatest.

10. Answer: (A) 37,500

June has 30 days.

$1,250 \times 30 = \mathbf{37,500}$ bulbs.

11. Answer: (B) ₹33,800

$8,45,000 \div 25$.

$25 \times 33,000 = 8,25,000$, and $8,45,000 - 8,25,000 = 20,000$.

$25 \times 800 = 20,000$, so the quotient is $33,000 + 800 = \mathbf{₹33,800}$.

12. Answer: (C) 648

'How many more' means find the difference.

$1,896 - 1,248 = \mathbf{648}$ tickets.

13. Answer: (D) Two lakh forty-five thousand six hundred seventy-eight

2,45,678 has 2 lakhs, 45 thousands, 6 hundreds, 7 tens and 8 ones, so it reads **two lakh forty-five thousand six hundred seventy-eight**.

14. Answer: (C) 32

$48 \times 31 = 1,488$, so 31 cartons hold 1,488 books and $1,500 - 1,488 = 12$ books are still left over.

Those 12 books need one more carton, so **32** cartons are needed in all. (The last carton is only part full.)

15. Answer: (A) 76,941

Greatest: arrange the digits from largest to smallest → 97,420.

Smallest: a five-digit number cannot begin with 0, so put the smallest non-zero digit first and the 0 next → 20,479.

Difference = $97,420 - 20,479 = \mathbf{76,941}$.

16. Answer: (B) (i) and (iii) only

Statement (i) is true — $99,999 + 1 = 1,00,000$. Statement (ii) is false; **1** is the identity for multiplication, since $a \times 1 = a$, while 0 is the identity for addition. Statement (iii) is true. Hence **(i) and (iii)**.

17. Answer: (B) ₹1,520

Total pens = $18 \times 24 = 432$.

Cost price = $432 \times 15 = ₹6,480$.

Profit = $8,000 - 6,480 = \mathbf{₹1,520}$.

18. Answer: (B) 10

Water used for the tanks = $4 \times 2,250 = 9,000$ litres.

Water left = $12,500 - 9,000 = 3,500$ litres.

Number of full drums = $3,500 \div 350 = \mathbf{10}$ drums.