

S.D.PUBLIC SCHOOL

B.U. BLOCK,PITAMPURA

Assignments

Class 7

Large Numbers Around Us

1. Fill in the blanks:

a) One million = _____ lakhs

b) 1 crore = _____ millions

c) 1 billion = _____ crores

2. Write the following numbers in words:

a) 4,56,78,910 (Indian system)

b) 73,452,198 (International system)

3. Write the following in standard form:

a) Four crore sixty-two lakh five thousand eight

b) Sixty million four hundred thousand nine

4. Compare the numbers using $>$, $<$, or $=$:

a) 6,78,34,900 _____ 67,83,490

b) 15 million _____ 1.5 crore

5. Word Problems:

a) A company earned ₹8,56,23,000 in 2023 and ₹9,24,65,400 in 2024. In which year did it earn more and by how much?

b) A metro city has a population of 1,42,34,789. Another city has 87,56,324 people. What is the total population of both cities?

6. Estimation and Rounding:

a) Round 8,76,541 to the nearest lakh.

b) Estimate the sum of 6,79,430 and 3,28,714 by rounding to the nearest thousand.

7. Conversion:

a) Convert 3 crore to millions.

b) Convert 150 million to crores.

8. Challenge Question:

India's population is approximately 1.4 billion. Write this number in:

- Indian system

- International system

Peek Beyond the point

1. Fill in the blanks:

- a) $0.7 = \underline{\hspace{1cm}}$ tenths
- b) $0.05 = \underline{\hspace{1cm}}$ hundredths
- c) $0.008 = \underline{\hspace{1cm}}$ thousandths
- d) $1.35 = \underline{\hspace{1cm}}$ ones + $\underline{\hspace{1cm}}$ tenths + $\underline{\hspace{1cm}}$ hundredths

2. Write the following decimals in words:

- a) 0.6
- b) 2.45
- c) 10.08
- d) 0.007

3. Write the following in decimal form:

- a) 3 tenths
- b) 12 hundredths
- c) 5 ones and 9 hundredths
- d) 7 thousandths



Section B: Measurement and Decimals

1. Using a ruler, measure the following objects and write their lengths in centimeters (cm) and millimeters (mm):

- a) Length of your pencil
- b) Width of your math textbook
- c) Height of your eraser

(Note: 1 cm = 10 mm)

2. Convert the following measurements:

- a) $5.6 \text{ cm} = \underline{\hspace{1cm}} \text{ mm}$
- b) $0.75 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$
- c) $3.5 \text{ kg} = \underline{\hspace{1cm}} \text{ grams}$
- d) $250 \text{ ml} = \underline{\hspace{1cm}} \text{ liters}$



Section C: Operations with Decimals

1. Add the following:

- a) $2.5 + 3.75$
- b) $0.6 + 1.4$
- c) $5.25 + 0.75$

2. Subtract the following:

- a) $4.5 - 2.25$
- b) $7.0 - 3.6$
- c) $10.0 - 0.95$

3. Multiply the following:

- a) 2.5×4
- b) 0.6×5
- c) 3.75×2

4. Divide the following:

- a) $6.0 \div 2$
- b) $7.2 \div 3$
- c) $5.25 \div 0.75$



Section D: Word Problems

1. Ravi bought 2.5 meters of cloth for ₹150. What is the cost per meter?
2. A bottle contains 1.5 liters of juice. If each glass holds 0.25 liters, how many full glasses can be filled?
3. A rope is 7.5 meters long. If it is cut into 5 equal pieces, what is the length of each piece?
4. A packet weighs 2.75 kg. If the empty packet weighs 0.25 kg, what is the weight of the contents?



Section E: True or False

1. 0.5 is equal to 5 tenths.
2. 0.75 is greater than 0.8.
3. 1.05 has 1 one and 5 hundredths.
4. $0.6 + 0.4 = 1.0$
5. $0.9 \times 10 = 9$

Expressions using letters-numbers

Section A: Understanding Variables and Constants

1. Identify which of the following are **constants** and which are **variables**:
 - a) 7
 - b) x
 - c) 3.5
 - d) y
 - e) z
 - f) -2
2. Fill in the blanks:
 - a) A **letter** used to represent a number is called a _____.
 - b) In the expression $3x + 23x + 23x + 2$, the coefficient of x is _____.
 - c) An expression with only numbers is called a _____ expression.

Section B: Forming Algebraic Expressions

Write algebraic expressions for the following statements:

1. Sum of a number x and 9
2. 7 more than thrice a number y
3. One-fourth of a number a
4. Product of a number p and 10
5. A number b subtracted from 15
6. Perimeter of a square of side s
7. Area of a rectangle with length l and breadth b
8. 3 times a number decreased by 4

Section C: Evaluating Expressions

Evaluate the expressions using the given values of variables:

1. If $x=2$, find:
 - a) $x + 5x$
 - b) $3x + 2x$

Section D: Word Problems

The cost of 1 pen is ₹p. Write expressions for:

- a) Cost of 5 pens
- b) Cost of 3 pens and 2 pencils (if pencil costs ₹q)
- c) Total cost if ₹r is paid for notebooks in addition to the above