ALGEBRAIC EXPRESSIONS & EQUATIONS

Name: _____ **Date:** ____/____/_____ **Score**_____

WORKSHEET-1

(1) Shilpa had Rs.30 but she spent Rs.21. Which number sentence can be used to find out how much money Shilpa has left?

A. 30 + 21 = m B. 30 − 21 = m C. 30 × 21 = m D. m ÷ 21 = 30

(2) James had n number of marbles. He lost 4 marbles at the park, and has left with 7 marbles now. Which equation represent the statement?

A. n − 4 = 7 B. n × 7 = 28 C. n ÷ 4 = 7 D. n + 4 = 7

(3) Find the value of n.

n ÷ 10 = 1

A. 0 B. 100 C. 1 D. 10

(4) In a bowling game, Rahul scored twice as many points as Pawan. If Rahul scored 320 points, how many points did Pawan score?

A. 640 B. 160 C. 432 D. 240

(5) Find the value of x in the following equation.

x ÷ 3 = 8

A. 11 B. 5 C. 9 D. 24

(6) Nine times a number is 72. What is that number?

A. 7 B. 8 C. 9 D. 13

(7) Madhuri earns Rs. 6 per hour by working at a library. If Madhuri worked for n hours, which option will calculate Madhuri's income?

A. 6 + n B. 6n C. n - 6 D. n ÷ 6

(8) Letter that stands for an unknown number is called_____.

A. constant B. product C. variable D. equation

(9) Evaluate:

12 decreased by 60

A. 5 B. 48 C. 72 D. 10

(10) Write as an algebraic equation. A number n, divided by 5 is 10.

A. $5 \div n = 10$ B. $10 \div n = 5$ C. $n \div 5 = 10$ D. $5 \times n = 50$

(11) If $x + 7 = 12$, what is the value of x?

A. 5 B. 19 C. 11 D. 9

(12) On Monday, Hunry solved 48 math problems and his mom gave him Rs.6. On Tuesday, Hunry solved 32 problems and mom gave him Rs.4. On Wednesday, Hunry solved 64 math problems and mom gave him Rs.8. How many math problems Hunry had to solve to get Rs.12?

A. 45 B. 86 C. 124 D. 96

(13) Deepak has Rs.20 in his piggy bank. How much money does he need to buy a toy that costs Rs.54 ? If d represents the amount of money Deepak needs, which of these equations represents the problem?

A. $20d = 54$ B. $20 + d = 54$ C. $54 \div 20 = d$ D. $d + 54 = 20$

(14) A number is 5 more than the quotient of 24 and 6. What is that number?

A. 10 B. 11 C. 9 D. 8

(15) Mrs. Simple bought 8 pack of glitter pens for her class. The total cost of glitter pens was Rs.16. Which of the following number sentences could be used to determine the cost of one pack of glitter pens?

A. $16 \times 8 = \square$ B. $8 \div 16 = \square$ C. $16 \div 8 = \square$ D. $16 - 8 = \square$

(16) The product of n and 7 can be expressed as _____.

A. $7 \div n$ B. $7 + n$ C. $7n \times 7$ D. $n \times 7$

(17) What is the rule for the following table?

In	42	48	72	90	138
Out	7	8	12	15	23

A. divide by 6 B. multiply by 6

C. divide by 8 D. divide by 7

(18) Twice a number is 18. Find that number.

A. 8 B. 9 C. 5 D. 20

(19) How do you write as an equation? The quotient of 6 and n.

A. $\frac{n}{6}$ B. $\frac{6}{n}$ C. $n \times 6$ D. $n = 6$

(20) Write an equation. Six less than a number n, is 16.

A. $n \div 6 = 16$ B. $6n = 16$ C. $6 - 16 = n$ D. $n - 6 = 16$

(21) The product of a number and 7 is 63. What is that number?

A. 8 B. 56 C. 9 D. 7

(22) How do you write "n increased by 4" as an equation?

A. $n + 4$ B. $4n$ C. $n - 4$ D. $4 = n$

(23) Write the following sentence as an algebraic equation. Katrina is y years old. In 5 years she will be 18 years old.

A. $18 \div 5 = y$ B. $y - 5 = 18$ C. $5y = 18$ D. $y + 5 = 18$

(24) Monika had n stickers. She gave 32 stickers each to two of her friends. If she has 28 stickers left, what is the value of n?

A. 64 B. 91 C. 92 D. 90

(25) A number increased by seven is fifteen. Find that number.

A. 8 B. 9 C. 22 D. 12

Answer Key Worksheet-1

(1) B	**(10)** C	**(19)** B
(2) A	**(11)** A	**(20)** D
(3) D	**(12)** D	**(21)** C
(4) B	**(13)** B	**(22)** A
(5) D	**(14)** C	**(23)** D
(6) B	**(15)** C	**(24)** C
(7) B	**(16)** D	**(25)** A
(8) C	**(17)** A	
(9) B	**(18)** B	