


INDIAN SCHOOL AL WADI AL KABIR



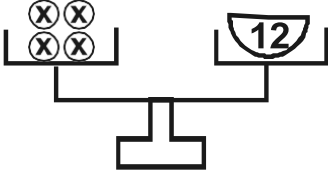
Class VI, Mathematics

Worksheet 1- ALGEBRA

OBJECTIVE TYPE (1 Mark)

Q.1.	Which of the following is an algebraic expression?						
A	2	B	xy	C	$2+5$	D	none of these.
Q.2.	No. of matchsticks are use in a pattern of letter F						
A	4	B	10	C	12	D	2
Q.3.	There are some expression given below. Which of these is an equation with variable.						
A	$x - 5 > 9$	B	$8+5 = 9$	C	$9x < 5$	D	$2x + 1 = 15$
Q.4.	If Maya's present age is x years then what will be her age two years ago.						
A	$x + 2$	B	$x + 5$	C	$x - 2$	D	x
Q.5.	Which of the following represent $6 \times b$?						
A	$6b$	B	$\frac{6}{b}$	C	$6 + b$	D	$6 - b$
Q.6.	If x takes the value 2, then the value of $x + 10$ is						
A	20	B	12	C	5	D	8
Q.7.	Which of the following equations has $x = 2$ as a solution?						
A	$x + 2 = 5$	B	$x - 2 = 0$	C	$2x + 1 = 0$	D	$x + 3 = 6$
Q.8.	For any two integers x and y , which of the following suggests that operation of addition is commutative?						
A	$x + y = y + x$	B	$x + y > x$	C	$x - y = y - x$	D	$xy = yx$
Q.9.	In algebra, letters may stand for						
A	known quantities	B	unknown quantities	C	fixed numbers	D	None of these
Q.10	The expression obtained when x is multiplied by 2 and then subtracted from 3 is						
A	$2x - 3$	B	$2x + 3$	C	$3 - 2x$	D	$3x - 2$
Q.11	Kanta has p pencils in her box. She puts q more pencils in the box. The total number of pencils with her are						
A	$p + q$	B	pq	C	$P - q$	D	$\frac{p}{q}$
Q.12	Think of a number and on adding 13 to it, I get 27. Equation for this is						
A	$x - 27 = 13$	B	$x - 13 = 27$	C	$x + 27 = 13$	D	$x + 13 = 27$

Q.13	If a notebook costs t p and a pencil costs Rs. 3, then the total cost (in Rs.) of two notebooks and one pencil.																		
A	$5 + p$	B	$6 + p$	C	$2p + 3.$	D	$3p + 2$												
Q.14	p is divided by 11 and the result is added to 10.																		
A	$\frac{p}{11} = 10$	B	$\frac{p}{11} > 10$	C	$\frac{p}{11} + 10 = 0$	D	$\frac{p}{11} + 10$												
Q.15	Translate each of the following statements into an equation. " The diameter (d) of a circle is twice its radius (r)."																		
A	$d = 2 + r$	B	$d = 2 - r$	C	$d > 2 + r$	D	$d = 2r$												
Q.16	Which of the following is an equation?																		
A	$x - 3 > 0$	B	$x + 3 < 0$	C	x	D	$x + 3 = 0$												
Q.17	The number of rooms on the ground floor of a building is 12 less than the twice of the number of rooms on first floor. If the first floor has x rooms, how many rooms does the ground floor has?																		
A	$y = 2x - 2.$	B	$y = 2x + 12.$	C	$y = 2x - 12.$	D	$y = 2x$												
Q.18	A starts his car from Delhi at 6.00 am to Amritsar. The uniform speed of his car is x km/h. At 12.00 noon, he finds that he is still 50 km away from Amritsar. Find the distance between Delhi and Amritsar.																		
A	$(6x \times 50)$ km	B	$(6x - 50)$ km	C	$(6x + 50)$ km	D	$6x$ km												
Q.19	Here is a pattern of houses with matchsticks:  Write the general rule for this pattern.																		
A	$6 + h$	B	$6 - h$	C	$6h$	D	None of these												
Q.20	If m is a whole number less than 5, complete the table and by inspection of the table, find the solution of the equation $2m - 5 = - 1$. <table border="1" data-bbox="235 1375 1104 1491"> <tbody> <tr> <td>m</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2m - 5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							m						2m - 5					
m																			
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Q21.	Pick out the solution from the value given in the brackets against each equation. (i) $5n = 60$ (5, 15, 12) (ii) $a + 12 = 18$ (10, 6, 4)																		

<p>Q22.</p>	<p>Case study: Ravi went to the market to purchase some household items. He asks the shopkeeper the prices of different items, If the cost of a bread loaf is ₹ 'x', find the cost of:</p> <p>a) butter which is ₹8 more than the cost of the bread loaf. b) 1 litre milk that is 3 times the cost of the bread loaf. c) 1 kg rice that is ₹ 75 more than twice the cost of the bread loaf. d) Price of an Apple juice can 3 more than is $\frac{1}{2}$ of the cost of the bread loaf. e) d) a pen that costs ₹ 15 less than four times the cost of the bread loaf.</p>	
<p>Q23.</p>	<p>Case study: Sarita's went to her grandparents' house. She was curious to know the ages of different members of her family.</p> <p>If Sarita's present age is 'y' years then,</p> <p>(i) her grandfather's age is 8 times of her age. (ii) her grandmother is 2 years younger than grandfather. (iii) Her father's age is 30 years more than her age. (iv) Mother's age is 3 years less than that of her father (v) Her brother is two years younger.</p>	
<p>Q24.</p>	<p>Observe the picture and answer the following questions</p>  <p>1. Write equation for the given picture. 2. What be solution of the equation.</p>	
<p>Q25.</p>	<p>Translate each of the following statements into an equation, using x as the variable.</p> <p>(a) 13 subtracted from twice a number gives 3. (b) Two-third of a number is 12. (c) 9 added to twice a number gives 13. (d) 1 subtracted from one-third of a number gives 1.</p>	