CHECK YOUR UNDERSTANDING

---- MULTIPLE-CHOICE QUESTIONS

F

For Basic and Standard Levels	
Choose the correct answer from the given	four options in the following questions:

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or Basic and Standard Levels		or to remove B
Choose the correct answer from the give	en four options in the follo	owing questions:
1. If a pair of equations is consistent, t	then the lines will be	
(a) always intersecting.	(b) always coincident.	
(c) intersecting or coincident.	(d) parallel.	
2. The pair of equations $x = 4$ and $y =$	3 graphically represent lir	nes which are
(a) coincident.	(b) parallel.	constraint of V
(c) intersecting at (3, 4).	(d) intersecting at (4, 3).	[CBSE 2012]
3. One equation of a pair of depender	nt linear equations is $-5x +$	-7y = 2, the
second equation can be $(a) 10x + 14y + 4 = 0$	(b) -10x - 14y + 4 = 0	and A. A.
(a) $10x + 14y + 4 = 0$ (c) $-10x + 14y + 4 = 0$	$(d) \ 10x - 14y = -4$	[CBSE SP 2011]
4. The value of α for which the pair of	of equations $3x + \alpha y = 6$ an	d 6x + 8y = 7 will
have infinitely many solutions is	The second of	atavi bit neit)
(a) 4	(b) no value	
	(d) $\frac{1}{2}$	
(c) 3	The state of the s	0 and $2x - hy = 0$
5. The points at which the graph lines	s of the equations $ax + by =$	= 0 and $ax - vy = 0$
STATE THAT I AND THE	(b) (b 0)	ni satisan karabasa Sau adi adab
	(b) (b, 0) (d) (a, b) (d) (a, b)	ns (animino sin
(c) (0, 0)	(u) (u, v)	
6. The points of intersection of the gray-axis respectively are		with the x-axis and
(a) $(0, -2a), (-2b, 0)$	(b) $(-2a, 0), (0, -2b)$	5. 35 kg 27 kg
(a) $(0, 2a), (2b, 0)$	(d) $(2a, 0), (0, 2b)$	
7. Which of the following is not a sol	lution of the pair of equati	ions
U U Z - 4	(b) $x = 4, y = 4$	1 CP CP 2011
(c) $r = 6$ $y = 7$	(d) $x = 5, y = 3$	CRSE St. 7011
8. If $x = a$, $y = b$ is the solution of the	equations $x - y = 2$, $x + y =$	4, then the values
of a and b are respectively	(b) 5 and 3	
(a) 3 and 5	(b) 5 and 3	
(c) 3 and 1	(d) -1 and -3	
9. The value of x satisfying both the $y = -1$ is	e equations $4x - 5 = y$ and	$1\ 2x - y = 3, \text{ when}$
y = -1 is (a) 1 (b) -1	(c) 2 (d)	-2

Work sheet 2. class

PAIR OF LINEAR EQUATIONS IN TWO VARIABLES | 3.73

6. The sum of digits of a two-digit number is 12. The number obtained by interchanging the two digits exceeds the given number by 18. Find the number.

[CBSE SP 2011]

- 7. The sum of digits of a two-digit number is 8. If 36 is added to the number, the digits interchange their places. Find the number. [CBSE SP 2011]
- 8. A two-digit number is 3 more than 4 times the sum of its digits. If 18 is added to the number, the digits are reversed. Find the number. [CBSE 2001 C]
- 9. The sum of a two-digit number and the number formed by interchanging the digits is 132. If 12 is added to the number, the new number becomes 5 times the sum of the digits. Find the number. [CBSE SP 2011]
- 10. A number consisting of two-digits, is seven times the sum of digits. When 27 is subtracted from the number, the digits are reversed. Find the number.

[CBSE SP 2010]

- 11. The sum of a two-digit number and the number obtained by interchanging digits of the number is 154. The digits of the number differ by 2. How many such numbers are there? Find all of them.
- 12. Seven times a two digit number is equal to four times the number obtained by reversing the order of its digits. If the difference of the digits is 3, determine [CBSE SP 2018] the number.

For Standard Level

- 13. The difference between two numbers is 6 and the difference between their squares is 96. Find the numbers.
- 14. The ten's digit of a two-digit number is twice the digit in unit's place. If the ten's digit is made half and its unit's digit is doubled then the new number obtained is less than the original number by 27. Find the number.
- 15. A two-digit number is four times the sum of its digits and twice the product of [CBSE SP 2005] its digits. Find the number.
- 16. A two-digit number is such that the product of its digits is 18. When 63 is subtracted from the number, the digits interchange their place. Find the number. [CBSE 2006 C]
- 17. A two-digit number is obtained by either multiplying the sum of digits by 8 and then subtracting 5 or by multiplying the difference of the digits by 16 and [NCERT EXEMPLAR] then adding 3. Find the number.

	ANSWER	S (EXERCISE 3F)	age of the state of the same of
1. 75 and 30	2. 24 and 32	3. 4 and 12	4. 7 and 3 or –3 and –7
	2. 24 and 32	To all all and the	8. 35
5. 40 and 48	6. 57	7. 26	12. 36
9. 48	10. 63	11. 86 and 68	THE THE PARTY OF T
- 0	5	15. 36	16. 92
13. 11 and 5	14. 63	13. 50	3
17, 83		1916	