THE TEZ EXAMINATION BOARD SET TWO ON ALGEBRA

1. SOLVING EQUATIONS BY SUBRACTING

	1. GOLVING EQUATIONS BY GODINACTING				
1.	Solve: x + 5 = 13	5.	Solve: x + 3 = 8		
2.	Solve: 8 = y + 5	6.	Solve: X + 6 = 10		
3.	Solve: 2 + y = 10	7.	Solve: 3 – y = 10		
4.	Solve: Solve: +8 – p = 5	8.	Solve: 8 + m = 12		

2. SOLVING EQUATIONS BY ADDING THE SAME NUMBERS ON BOTH SIDES

1.	Solve: $x - 3 = 15$	4.	Solve: $y - 3 = 7$
• •	G0170. X G = 10		Server y S = 1
2.	Solve: $k - 9 = 8$	5.	Solve: $3 = x - 6$
3.	Solve: $-4 + y = 5$	6.	Solve: 6 = - 8 + b
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7.	Solve:12 = -7 + p	8.	Solve: 4 – q – 6 = 12
	3. SOLVING EQUATIONS BY DIVIDING BO	НТС	SIDES BY THE SAME NUMBER
1.	Solve: 5x = 25	5.	
2.	Solve for t: 32 = 8t	6.	Solve: 3 = -y + 1
3.	Solve: -p = 10	7.	Solve: $6 - y = 3$

4.	Solve: -15y = -45	8.	96 = 8y - 2y

1.	Solve: $\frac{a}{4} = 6$	6.	Solve: $\frac{1}{2}y = 9$
2.	Solve: $8 = \frac{y}{2}$	7.	Solve: $\frac{2}{3}$ m = 4

4. Solve: $\frac{x}{3} = 2$ 9. Solve: $\frac{2}{5}p = 10$ 5. Solve: $\frac{x}{5} = -5$ 10. Solve: $\frac{1}{4}p = 5$ 5. SOLVING EQUATIONS WITH SQUARES	3	Solve: $\frac{m}{3} = 4$	8.	Solve: $1\frac{1}{2}$ m = 12
			9.	Solve: $\frac{2}{5} p = 10$
5. SOLVING EQUATIONS WITH SQUARES	5.			
			ONS	WITH SQUARES

1.	Solve: $a^2 = 4$	6.	Solve: $y^2 + 5 = 9$
2.	Solve: 2x ² = 32	7.	Solve: $x^2 - 3 = 33$
3.	Solve: $x^2 + 1 = 10$	8.	Solve: $P^2 + 4 = 20$
	Solve. A + I = IU	3.	Suive. F + 4 = 20

4.	Solve: $9x^2 = 16$	9.	Solve: $q^2 - 7 = 18$
5.	Solve: $4(y^2 - 1) = 21$	10.	Solve: $6(x^2 + 2) = 306$

6 MORE ON SOLVING FOLIATIONS

	6. MORE ON SOLVING EQUATIONS				
1.	Solve: 2x + 6 = 18	5.	Solve: 2p + 4 = 20		
2.	Solve: $30 - 8 = 7$	6.	Solve: 3x + 5 = 14		
3.	Solve: $3 - 3x = 12$	7.	Solve: 4y + 2 = 16		
4.	Solve: $10 - 4x = x$	8.	Solve: 3m – 2 – 2m =1		

7. SOLVING EQUATIONS INVOLVING REMOVAL OF BRACKETS

- √ When removing brackets, multiply every term inside the brackets by the factor outside the brackets.
- ✓ A positive sign before the brackets does not change any sign inside the brackets.

✓ A negative sign before the brackets changes every sign inside the brackets.

	A negative sign before the brackets (
1.	Solve: +2(2m + 4)	7.	Solve: 2(m + 3) = 18
2.	Solve: +2(2m – 4)	8.	Solve: $4(x - 3) = 16$
3.	Solve: -2(2m + 4)	9.	Solve: $6x - 9(x - 2) = 3$
4.	Solve: -2(-2m – 4)	10.	Solve: $5(m + 4) = 30$
5.	Solve: 3(m + 2) =21	11.	Solve: 6(m + 4) = 0
6.	Solve: 5t – 2(t + 1) = 1	12.	Solve: $3x - (x + 3) = 3$

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8. MORE ABOUT SOLVING EQUATIONS INVOLVING REMOVAL OF BRACKETS

	8. MORE ABOUT SOLVING EQUATIONS INVOLVING REMOVAL OF BRACKETS				
1.	Solve for x: $2(3x - 1) - 4(x - 1) = 4$	5.	Solve: $2(3a - 5) - 3(1 - a) = 14$		
_	0 1 0/0 1) / 1) 05	_	0 1 1/0 5) 0/0) 10		
2.	Solve: $3(2x + 1) - (x + 4) = 35$	6.	Solve: $4(3x - 5) - 2(6 + x) = -12$		
3.	Solve: $(y-2) 5 - 2(y-2) = 3$	7.	Solve: $5(3y + 2) - 4(y - 3) = 0$		
٥.	Solve. $(y - 2) 3 - 2(y - 2) = 3$	' '	Solve: $3(3y + 2) - 4(y - 3) = 0$		
4.	Solve: $2(2y - 3) - (y + 9) = 0$	8.	Solve: $2(x + 1) - 3(2x - 1) = -3$		
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9.	Solve: $3(2x + 1) + 4(x + 3) = 35$	10.	Solve: $3(p + 2) + 2(2p + 4) = 21$

9. SOLVING EQUATIONS WITH UNKNOWN ON BOTH BRACKETS

	9. SOLVING EQUATIONS WITH UNKNOWN ON BOTH BRACKETS				
1.	Solve: 2m + 4 = m + 6	5.	Solve: $2(2p - 10) = 2(p + 4)$		
2.	Solve: 3p – 6 = 18 + p	6.	Solve: 2n + 12 = 6n - 20		
3.	Solve: $7x + 4 = 3x + 20$	7.	Solve: $3x + 7 = x + 9$		
4.	Solve: 3a – 5 = a + 19	8.	Solve: 18m - 13 = 13m - 3		

9.	Solve: 5a – 3 = 2a + 3	13.	Solve: 3(p - 4) - 2(3p -1) = 2p - 15
10.	Solve: 10t – 12 = 9t – 2	14.	Solve: 11 – (t + 4) = 2t - 5
11.	Solve: $3(2x - 2) = 2(x - 9)$	15.	Solve: $3(a-2) = 2(a-1)$
12.	Solve: $4(5x - 3) = 2(5x + 9)$	16.	Solve: 3(6y – 14) = 4(4y + 8)

10. SOLVING EQUATIONS INVOLVING FRACTIONS

✓ Note 1: Find the LCM of the denominators

✓ Note 2: Identify the number of terms

✓ Note 3: Multiply each term by the LCM

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1.	Solve: $\frac{2x}{3} = 4$	5.	Solve: $2x - 5 - \frac{4x}{5} = 12$
2.	1	6.	2x
2.	Solve: $4\frac{1}{3}p + 2 = 15$	0.	Solve: $5x + 5 - \frac{2x}{3} = 18$
3.	Solve: $p - \frac{2}{3}p = 7$	7.	Solve: $3y - 7 + \frac{3y}{4}y = 23$
	· ·		-
4.	Solve: $\frac{2}{3}y - 4 = \frac{1}{2}y + 6$	8.	Solve: $\frac{2p}{3} - p = 5$
	3 1 - 2 1 · 0		3 P = 0

11. SOLVING EQUATIONS WITH DECIMALS

	11. SOLVING EQUATIONS WITH DECIMALS				
1.	Solve: 0.4p + 0.5 = 2.1	5	Solve: 0.4p - 0.6 = 4.2		
2.	Solve: 1.6p – 2 = 1.2	6.	Solve: $0.3(5x + 6) = 0.9(x + 4)$		
3.	Solve: 0.5t + 0.4t = 3.6	7.	Solve: 0.3t + 5 = 0.5t + 3		
4.	Solve: 0.9p + 0.3 = 5.7	8.	Solve: 0.4x + 0.5 – 0.2x = 8.1		

MORE ON SOLVING EQUATIONS INVOLVING FRACTIONS

1.	Solve: $\frac{m+2}{3} + \frac{m}{4} = 3$	5.	Solve: $\frac{4m-3}{5} - \frac{2m+2}{4} = 1$
	3 4		5 4
2.	Solve: $\frac{5p}{2} - \frac{b-1}{3} = 9$	6.	Solve: $\frac{y}{2} + \frac{y-1}{5} = 4$
	2 3		2 5
3.	Solve: $\frac{y+3}{2} + 4 = 6$	7.	Solve: $\frac{x}{4} + \frac{x+2}{3} = 3$
	2		4 3
4.	Solve: $\frac{y+2}{2} + \frac{y}{3} = 6$	8.	Solve: $\frac{2x}{3} + \frac{x-1}{2} = 3$
	2 3		3 2

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9.	Solve: $\frac{x}{2} + \frac{x+2}{3} = 4$	11.	Solve: $\frac{3x+1}{4} = \frac{x+2}{2}$
10.	$\frac{3}{2}$	12.	3y-1 7y+1
10.	Solve: $\frac{3}{4}(x+2) - \frac{1}{4}(2x+4) = 3$	12.	Solve: $\frac{3y-1}{2} = \frac{7y+1}{6}$