Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time. Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and email. Students are requested to copy the notes and do the exercises on their copybooks. The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php. Please note that these are extra work and notes that we are providing our students and all classes will be replaced during the winter vacation. We thank you for your trust and are convinced that, together, we will overcome these troubled times.

Knowledgeplus Training Center

Mathematics

Garde 8

<u>Week 3</u>

Notes and Exercise

Note:(All the Notes, Examples and Exercise are on the photos)

Mathematics Grade 8 Weeks Continue in Algebraic Expression & Algebraic Equation -> Substituting values in expressions Examplei Given that a=3 b= #-1 and c=7, Find the value 6) abc (b) 2a-3b (c) ab +4c (d) b²+5ae (e) 7bc - 2ab. Solution: 1) - to Co entration of the co (a) abc = (3) (-1) (7) 10. Sulat 20) = -21 (b) 2a-3b = 2(3) -3(-1) = 6 - (-3)= 673 Sale each as the collowing equipants The Marine C (c) ab + 4c = (3)(-1) + 4(7)P - - 2-19 (1) = -3 + 28 = 25 $(d) b^2 + Sac = (-1)^2 + S(3)(7)$ = 17105 = 106 (e) 7bc - 2ab = 7(-1)(7) - 2(3)(-1)= - 49+6 = - 43

Exercise 1: School and and and If a=2 b=3 and c=-1, find the numerical value of each of the following expressions: (a) zath (b) 4a-b (c) 2a+3b-sc (d) ac^{2} (e) $(ac)^{2}$ (f) $-(ab^{2})$ (g) $3a^{2}bc$ (h) $3a(bc)^{2}$ (i) abc^{3} (j) $a(bc)^{3}$ (l) $a^{2}+b^{2}$ (L) $abc+c^{3}$ (m) 3ab-4c (h) 2ab+3bc2 (a) 4ab2-6abc (P) 2a(3b - Ac) Solving equations involving the additive inverse. Example: Solve each of the following equations: (a) ats=1 (b) y=8=17 (c) at3=-2 (d)m-(d) m-6=-9 Solution: Vole: (a) x+5=1 a=1-5 x = -4(b) y-8=17 y=17+8 4=25

(c) at3 = -2 a = -2-3 a = -5(d) m-6 =-9 m = -9+6m = -3Exercise 2 Solve the following equations. 6) K+5=9 (c) y+7=-3 (b) Z+12=18 Mound Education (F) 10+t=32 (d) m+13=-14 (e) Z+20=20 (9) att2 = -19 (h) b+2.8=5 (1) $C + \frac{1}{2} = 4$ (j) S+0.9=1.6 (1-) e+1=7 4 (2) V+2 = 51Solving equation involving the multiplication inverse - 7 G Example. Sulve the following equation: Solve the following equation. (a) 4a=-16 (b) 5=12 (c) -2n=8 (d) -m=3 5(a) 4a = -16a = -164 $\alpha = -4$ (b) b=12 SP=12x5 6=60 (2)

(c) - 2n = 86 0133-20 n = 8 -2 7-- 1 h = -4m = 3x - 4Freder a m = 12Tor He Ella ina demotines. E- Exercise 3: QUE GIVE TO PETER AD Solve the following equations. (a) 3n=24 (b) 5m=100 (c) 194=38 (d) 27 = -5 (e) -8a = 16 (f) -9r = -36(9) 0.56 = 2.05 (h)-0.24 = 1.8 Enercise 31: is very Solve the following equations (a) x = 12 (b) $-\frac{7}{2} = 9$ (c) $\frac{7}{4} = -5$ $\frac{7}{3}$ $\begin{array}{c} (9) - a = -8 \quad (h) \quad b = -4 \\ \hline 7 \quad 03 \end{array}$

Solving equations involving more than one operation Example: Solve the following equations: (a) 2x-6=14 (b) x+5=-7 (c) -4s-9=11Solution (a) 2n-6 - 14 2n = 14 + 62n = 20a = dcN= 10 (b) n+5=-7 2=-7-5 The second since $\frac{n}{3} = -12$ - (FFA)= 1- 1-N=-12×3 $\lambda = -36$ (c) - 4s - 9 = 11-45 = 11+9 -45=20 5=20 -4 5=-5

			Example:	
(a)) 3x +6 = 13	Cllowing equations. (b) $-2n \neq 7 = 1$	Scher Hr Jalla	
	11-12-32-11	(A) K	60 Br- K- 14	
(0)	44-15=10	(d) 4 - a = 11	10°/0/22	
			6182-6-14	
(e)	1 - 7y - 24 = -3	$(f) - 3 \neq -12 = -17$	28 - 1951	
			-2x = 20	
(9)	$\frac{7}{2} + 9 = -2$	(h) a -1=18	56 = 5	
		-	<u>لم</u>	
(i)	67+7=-42	(-i) 7 - b = -3	22 10	
(k)	Solving equal	-21 (L) -4b -8 = -2. tion involving brack	Lets (in the form	
(4)	Solving equal m(x+a) = & Example:	tion involving brack	leets (in the form	
	Solving equal m (x + a) = t Example: Solve the fah	tion involving brack	Lets (in the form	
G)	Solving equal m (x + a) = & Friemple: Solve the foll 5(a+7)=15	tion involving brack	Lets (in the form	
G)	Solving equal m (x + a) = k Example: Solve the foll 5(a+7)=15 Solution	hion involving brack lowing equation. (b) -3(m-2)	Lets (in the form	
G)	Solving equal m (x + a) = k Example: Solve the follow Solve the follow Solution S(a+7)=15	hion involving brack lowing equation. (b) -3(m-2) (b) -3(m)	-2)=9	
G)	Solving equal m(x + a) = k Example: Solve the fell 5(a + 7) = 15 5(a + 35 = 15	hion involving brack lowing equation. (b) -3(m -2) (b) -3(m -3m+	Lets (in the form =9 -2)=9 6=9	
G)	Solving equal m(x + a) = k Example: Solve the fell S(a + 7) = 15 S(a + 35 = 15 Sa + 35 = 15 Sa = 35 - 35	hion involving brack lowing equation. (b) -3(m -2) (b) -3(m -3m+ -3n	=9 $=2)=9$ $=9$ $=2)=9$ $=9$ $=2-6$	
G)	Solving equal m(x + a) = k Example: Solve the fell S(a + 7) = 15 S(a + 35 = 15 Sa + 35 = 15 Sa = 35 - 35	hion involving brack lowing equation. (b) -3(m -2) (b) -3(m -3m+ -3n -3r	=9 $=2)=9$ $b=9$ $b=9-6$ $m=3$	
G)	Solving equal m(x + a) = k Example: Solve the fell 5(a + 7) = 15 5(a + 35 = 15	hion involving brack lowing equation. (b) -3(m -2) (b) -3(m -3m+ -3n -3r	=9 $=2)=9$ $=9$ $=2)=9$ $=9$ $=2-6$	

Exercise 6 Solve the following equation: Solve the tillowing equation: (a) 3(x+2)=12 (b) 7(x-5)=35 (c) 3(x-2)=10 $(d) - S(\lambda - 1) = S(\ell) 2(-\lambda + 3) = -12(f) 12 = 2(\lambda + 3)$ (g) 3(t-2)=0-42.