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 9

<u>Week 7</u>

Notes and Exercise

Note:(All the Notes, Examples and Exercise are on the photos and Note:(Please copy all the Notes, Examples and Exercises on your copy book).

Mathematics Grade 9 Week # Subject of Famila 135 Working with a given formula Example = 180n - 360 Find is given that (i) Value of 2 when n-S, (ii) the value of when 5 = 1440 Schution S = 180n - 360 Always write the fimula up 1 - first. 20 1) (ii)5=1440 n=S(nisgiren) :. S = 180 (5) -360 Skplace n=5 1440 = 180n - 360 in the formula 180n-360 = 1440 = 900-360 then find the 180n = 1440+360 = 540 value ofs. 180n= 1800 ·· S = 540 Same as for part 2. n = 1800 180 : n = 10 ! oncomple the format then workaut Pramine enercise.

Changing the subject of formula. Recall Remember: you must know this well to any question in mathematics. Example 2 - mill 15010 .360 It is given that v=u+at. Chang the subject b: (i) us (ii) to Enclose for (i) V= u+at u + at = Vu=Voat So: u=V-at (ii) & V=utat utat = V at=V-Ll E=V-U and the ale a a

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Example3 It is given that y= n-5. Make x the subjet of formula. Solution Send a by, As a is y= 22-5 going to y and as a is a division it will go ay=n-5 up as multiplication. 2-5 = ay n=ay+5 Change of subject - Hurder problems involving grouping You must know equation Quadratics equation and cross-multiply well. So do yourself a favor to revise the previous of quadratic my equation before doing these enquestion Examplely Given that y= 2x+5, make n the new Subject-32-4 y=2n+5 3n-4 y (32-4) = 201+5 3ny-4y=2n+5 3ng - 2n = 5+44 2(34-2)=5+44 2 = 5+44 34-2

Attempt All Question.

- 1. Given that t = a + 5d, find the value of (i) t when a = 4 and d = 3, (ii) a when t = 5 and d = 2, (iii) d when a = 3 and t = -12.
- 2. Given that a = 2b c, find the value of (i) a when b = 4 and c = 5, (ii) b when a = 7 and c = 8, (iii) c when a = 2 and b = 10.
 - 4. Given that v = u + at, find the value of
 (i) v when u = 10, a = 2 and t = 8,
 (ii) u when v = 30, a = 3 and t = 5,
 (iii) t when v = 30, u = 18 and a = 4.
 - 1. In each of the following, make x the subject of formula. (a) x + 2 = b (b) x - a = 2b (c) 2x - y = k (d) a + 2x = 5 (e) 3(x - y) = a2. Make x the subject of formula. (a) ax = b (b) ax = b + 2 (c) xy = 2 - a (d) xy - b = a (e) a(x - b) = c3. Make x the subject of formula. (a) a - x = b (b) 2b - x = c (c) y - 2x = a (d) 3(a - x) = b (e) a(b - 2x) = c4. Make x the subject of formula. (a) $\frac{x}{a} = b$ (b) $\frac{k}{x} = y$ (c) $\frac{x - a}{2} = b$ (d) $\frac{4x + b}{2} = c$ (e) $\frac{ax - b}{c} = 2$ (5) Make x the subject of formula. (a) $\frac{x}{2} = b + c$ (b) $\frac{x}{a} - b = 2c$ (c) $\frac{a}{x} - y = 2$ (d) $\frac{1}{x} - 7 = a$ (e) $3 + \frac{2}{x} = y$

- 1. Make *x* the subject of formula. (a) y = x(a + 2) (b) y = 2x(a - 5) (c) y = 2x + ax (d) y = 2ax - 4x (e) y + ax = bx
- 2. Change the subject of formula to *x*.

(a)
$$y = \frac{2x+3}{x-1}$$
 (b) $y = \frac{3x-2}{x+5}$ (c) $y = \frac{3x-1}{2x+3}$ (d) $y = \frac{3x+a}{2x+b}$ (e) $y = \frac{3x+a}{2x}$