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

Week 3

Notes and Exercise

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

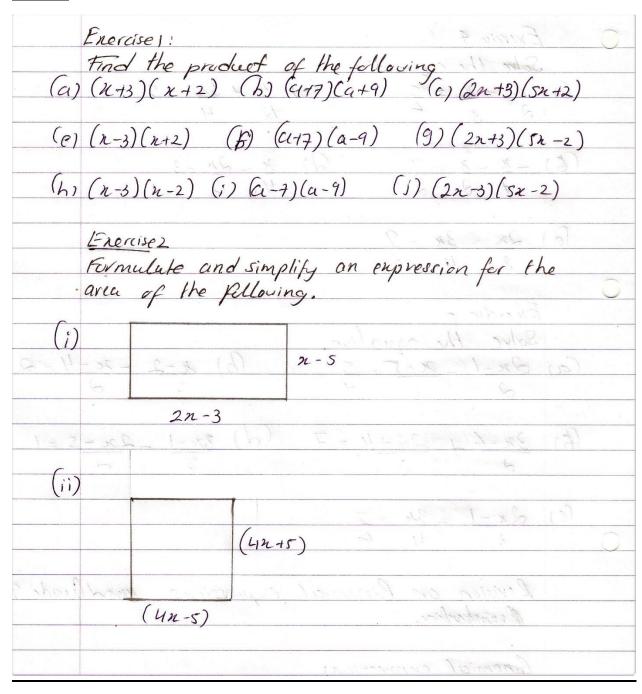
| Algebrais Mathematics | Darado 9 weeks | | | | | | |
|---|-------------------------------|--|--|--|--|--|--|
| Algebraic Mathematics Continue with Algebraic Es | quakin de la Maria | | | | | | |
| 5-1-1-1-1-1 | 2-E-1 4-10 (4) 8-14-2-5 (6) | | | | | | |
| Algebraic Fractions | 5 | | | | | | |
| Solving linear equations | involving algebraic fractions | | | | | | |
| Cuntenown in the numercuto | (r). | | | | | | |
| Enginales | | | | | | | |
| Solvin St solve the for | llowing oguchen: | | | | | | |
| (a) n = 7 (b) 5-n = | 2 +2 | | | | | | |
| (a) $n = \frac{7}{4}$ (b) $\frac{5-n}{3} = \frac{7}{3}$ | 4 4 - KELNZ | | | | | | |
| ·Solution | 1, 51 | | | | | | |
| | 5× - 4 | | | | | | |
| $\begin{array}{cccc} (a) & \underline{k} & = \overline{4} \\ \underline{4} & \underline{\lambda} \end{array}$ | 1, 5, | | | | | | |
| 7 2 2 | = 411-13. | | | | | | |
| 2 - 7 14 | * | | | | | | |
| $n = 7 \times 4$ | 920 = 20 | | | | | | |
| | 3 | | | | | | |
| $\lambda = 7 \times 2$ | 2-16-18 | | | | | | |
| a=14 | 2 | | | | | | |
| 0 0 0 0 | 204 | | | | | | |
| (b) 5-2 52+2 3 4 | 15 25 2 1 | | | | | | |
| | 2 | | | | | | |
| 4(s-n) = 3(2+n) | | | | | | | |
| 20-4n=6+3n | <u> </u> | | | | | | |
| -4n-3n=6-20 | | | | | | | |
| -7n =-14 | • | | | | | | |
| h = -14 -7 | | | | | | | |
| | | | | | | | |
| $\lambda = 2$. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | Enamole: 2 | Howing equations: 4 (b) $x+4-x-7-5$ 9 | |
|--------|--------------------------|---|----|
| | Solve the For | lowing equations: | |
| (a) | 2c + 2c - | 4 (6) 2+4 - 2-7=5 | |
| | 3 5 | 9 2 3 | |
| idlion | Solution: | Shippy livery or notice in volving | |
| (a) | x+n=4 3 5 9 | (unterious in the pro- nator) | |
| | 3 5 9 | Emaple 1 | |
| _ | 5(x)+3(x)= | Ship Stole H. Floring 4 | |
| | 15 | 4 principle 11. following 4 Page 12. 12. 12. 12. 12. 12. 12. 12. 12. 12. | |
| | $\frac{5n+3n=4}{15}$ | \$ \tag{\alpha} \ta | |
| | 15 9 | Charan | |
| | 8x = 4 15 9 | (10) 2 = 7 | |
| | | 'a 14 | |
| | 8n = 4 x +5 | | |
| | 34 | 7 = 7 × F | |
| | 8n = 20 | | */ |
| | 3 | CX E- 6 | |
| | n = 20 = 3 | 3 - 14 | |
| | 3 5 | | |
| | n= 20 x1 | P 2- 2 6-2 4 8 | |
| | n= 26 x 1 3 & 24 2 | 3 44 . | |
| | 2 | (xc+=12=1xc-5)7 | |
| | :. 2=5 | 20-27 - 6-37 | |
| | 6 | -111-311 = 1-20 | |
| | | | |

| - X | 1- | | 1 2 | 11 | 13 |
|-----|---------|-------|-----------|-----|---------------------|
| (6) | 2+4 | - n- | 7 = 5 | | |
| | N/ | 3 | | | Exercises |
| | 3(n- | 44)-2 | (n-7)=5 | | Sty the coupling |
| | | 6 | 1 22 = 1. | D | E 21 44 00) |
| | 32 | 412-2 | 2n+14=5 | | 8 7 |
| | | 11- | 57-2-3 | [4] | 6: 2×41=5 |
| | 32 | +12-2 | x+14=5x6 | , | 9 6 |
| | A-COLOR | | 414 = 30 | | (e) Ey 23 = 1 |
| | | | 2+14 = 30 | | 8 |
| | | 2+2 | 6 = 30 | | |
| | | n | = 30-26 | | Exercises |
| | | | = 4 | | Tolor thy courts |
| | | 7 | (A) 54-3 | | 412 °C = 47 -0 (15) |
| 3 | | 3 | 6 | | |

| | - nercise |
|------|--|
| 6 | Scho the equations. |
| (01) | n = 3 (c) $n = -3$ (c) $n = 3$ 5 5 7 4 |
| | |
| (01) | $\frac{3}{2}n = -1$ (e) $\frac{-3}{4} = \frac{8}{9}n$ (f) $\frac{-2n}{3} = \frac{8}{3}$ |
| (9) | $\frac{6u-1}{7}$ $\frac{(h)}{5}$ $\frac{26-13u}{5}$ $\frac{(i)-124u}{5}$ |
| | $\frac{6u-1}{7}$ (h) $26=\frac{13}{5}$ (i) $-\frac{12}{5}$ - $\frac{4u}{5}$ |
| (j) | $\frac{10n - 3}{17} \frac{(k)}{10} \frac{9n - 9}{5} \frac{(L)}{7} - \frac{4}{21} = n$ |
| | |
| | O Brand - m = 2 |
| | Exercise 2 |
| | Solve the equation |
| (a) | Solve the equation $\frac{4u+s-7}{6}$ (b) $\frac{x+s-12}{3}$ |
| | |
| (() | $\frac{2x+1=5}{3}$ (d) $\frac{5y-2=3}{4}$ |
| | |
| (e) | 6y +3 =1 |
| | 30 - 1112 212 30 - 101 |
| | Enercise 3 |
| A | |
| (a) | Solve the equation $3-5n=2-4x \qquad (b) 5n-3=x-2$ |
| | 4 3 3 5 |
| | |
| (c) | x-1 = x (d) $8y + 5 = 3y - 7$ |
| | $\frac{\chi - 1 - \chi}{2}$ (d) $\frac{8y}{5} + \frac{3y}{5}$ |
| | |
| (e) | 3x - 10 = x - 1 |
| | 2 |
| - | |
| | |

| | Exercise 4 |
|-----|--|
| | Solve the exception |
| (a. | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | 0/(0 2 1/2) (2-0/(00) (f) (00)(0-1/10) a |
| (6) | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | 7 2 2 |
| | |
| le | $\frac{3x-3x-9}{8}$ |
| | |
| | Enercise 5: |
| | Salve the course from |
| Car | $\frac{2n-1}{2} = \frac{x-5}{2} = \frac{5}{4}$ (b) $\frac{x-2}{5} = \frac{x-4}{2} = 2$ |
| () | $\frac{2n-1}{2} = \frac{x-5-5}{3} = \frac{5}{4} = \frac{5}{5} = \frac{2}{4}$ |
| | |
| (6) | $\frac{3n-6}{2} + \frac{2n+4}{3} = 7 (d) \frac{3n-1}{5} - \frac{2n-5}{2} = 1$ |
| | 2 3 5 2 |
| | (11) |
| (e) | 3 + 4 = 5 |
| | 3 4 6 |
| | P |
| | Revision un Binomial expressions and Grade 9 |
| | alungoksobies. |
| | Binomial expressions |
| | Examples |
| | Evaluate (In+4) (3x 17) |
| | Solution |
| | (2n+4)(3n+7) = 2n(3n+7) + 4(3n+7) |
| , | $=6n^2+14n+12n+28$ |
| | = 6x2+26x+28 A |
| | |



| PE | rfect Sq | uares | | 18 | Eure | |
|--------|------------------|--------------------|---|----------------|------------|-----|
| | 1 | | 25: 11. | 11 hapa | 144-6 | |
| I E. | apaind (| (a+b)2 | and (| i-b)2 | (HF4 (1)) | |
| (i) (a | (tb) = (a | a+b)(a+b) | (2) | $(a-b)^2 = (a$ | 1-b)(a-b) | |
| | = Q | (a+b)+b(a+b |) | =41 | (a-b)-b/a- | 6) |
| | | 22+4b+4b+, | | = q | 12-ab-ab- | 164 |
| | | a2+2ab+b2 | | : = a | 1-296+64 | |
| | | = a2+b2+24b | | - 6 | 22+62-296. | |
| · E. | nample: | 4, | | | | |
| (i) G | 2+3)2 = | n (n+3) +3 (2 | 1 | | | |
| | ulution | | | | | |
| | $(13)^2 = (2)^2$ | (13) (2+3) | | | | |
| | = 2 | (n+3)+3(n+3) | | | | |
| | 7 | 2+32+32+9 | | | | |
| | , | n2+6n+9 | | - | | |
| (i) (4 | (2n | -472 | | | | |
| | alution | | | | F | |
| 7 | 24-412= | (2n-y) (2n- | 4) | | | |
| (~ | - | 2 1 (2 2 - 11) - 1 | $\frac{1}{4(2n-4)}$ | 1 | | |
| | | 2n(2n-y)- | 2 | | | |
| 16. | | 4n2-4ny+y | 2 | | | |
| | , | in ing ry | | | | |
| | * | | | | • | |

