KNOLEDGEPLUS TRAINING CENTER

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

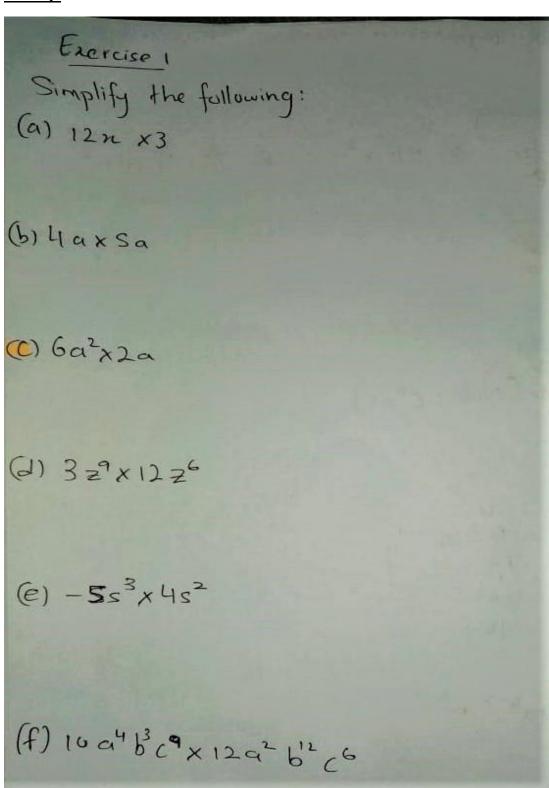
Garde 8

Week 2

Notes and Exercise

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

Muthematic grade 8 per revision
Algebraic Enpressions & Algebraic Equation.
Coefficient and Constant Tourn Term
A term consists of a coefficient and a variable. The +
A term consists of a coefficient and a variable. The + and - signs in a algebraic expression separat it into terms.
Enemple: 4a-32 consists of 2 terms: 4a and 32
The number that is placed in front of a term is called the coefficient of that variable.
Example: In 3n, 3 is the coefficient and 2 is the variable
A term containing no variable is called a constant term.
Escample: In 8a +5, 5 is the constant term.
For each of the following expressions, complete the sentence found on the right:
Sentence found on the right:
END
(a) 9m - The coefficient of m is
(b) 7n → The coefficient of n is
(c) -2= The coefficient of Z is.
(d) 4x2 The coefficient of x2 is
(e) - Sab → The coefficient of ab is
(f) 6c-2d—The coefficient of is 6 and the coefficient of od is



Simplification of expression involving division

Example

Simplify the following

(a)
$$12m \div 3$$
 (b) $\frac{2c}{8c}$ (c) $28 \times 2^{2}y \div 7x$ (d) $\frac{4m^{3}n^{2}}{12m^{2}n}$

(a) $12m \div 3 = \frac{4}{12} \times m$

$$= 4 \times m$$

Exercise
Simplify the following

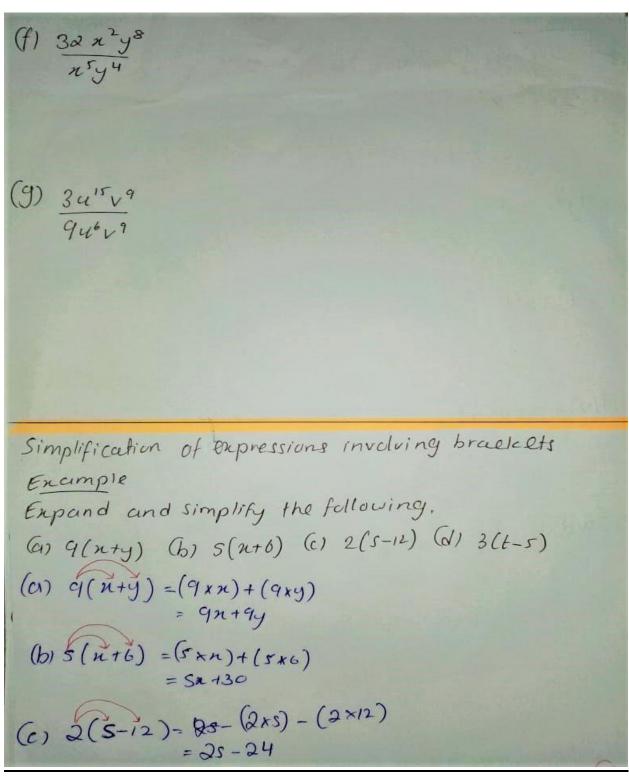
(a)
$$2\pi^{10} \div x^{4}$$

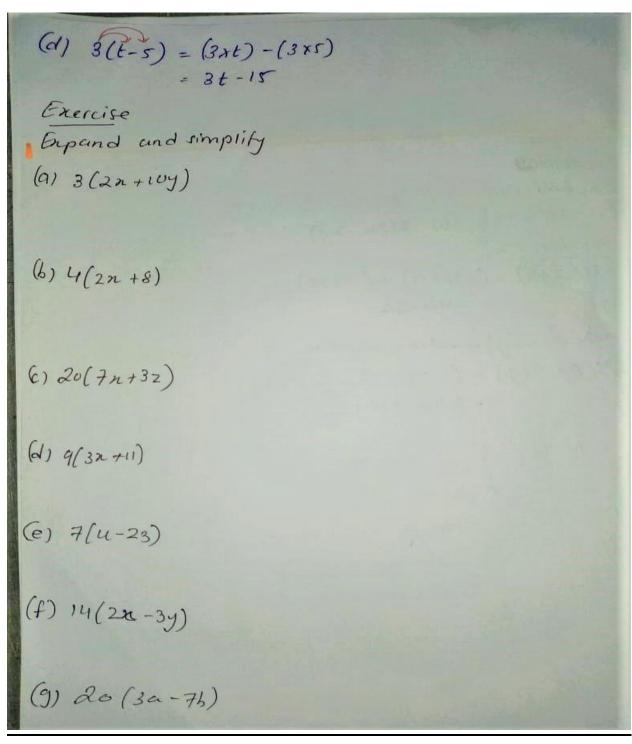
(b) $9y^{+} \div y^{5}$

(c) $s^{c}t^{s} \div s^{s}t^{2}$

(d) $4v^{2}w \div 12v^{3}w$

(e) $2u d^{2}b^{4}c^{+} \div 21a^{1+}b^{2}c^{5}$





(h)
$$8(2m-3n)$$

Exercise
ExampleD
Expand and simplify.
(a) $-4(a+8)$ (b) $-5(8n-2y)$

solution
$$-4(a+8) = (-4xa) + (-4x6)$$

$$= -4a-32$$
(b) $-5(8n-2y) = (-5 \times 8n) - (-5 \times 2y)$

$$= -40n + 10y$$
Note: $+ \times + = +$

$$+ \times - = -$$

$$- \times + = -$$

$$- \times - = +$$

Enercise 2 Expand and simplify (e1) -7(d+9) (b) -2 (3x+24) (c) -3(2ab+4ad) (d) - 6(16n ty) (e) -5 (10e+9f) (+) -17(zu +6v) 9)-12(84V-104W)

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Expand and simplify the following: (xample 3)

(a)
$$3u(4u-7)$$
 (b) $-2n(3x-4y)$

Solution

(a) $3u(4u-7) = (3u \times 4u) - (3u \times 7)$ Role: $axa = a^2$

(b) $-2n(3x-4y) = (-2n \times 3n) - (-2n \times 4y)$
 $= -6n^2 + 8ny$

(c) $2ny(3x+6y)$

(d) $-v(2v-12)$

(c)
$$10(s+3t)+12(2s-st)$$

(d) $10(s+3t)+12(2s+st)$

(e) $4(a+9)+6(a-10)$

(f) $1+(2a+3b)-20(4a+b)$

(g) $2(x-7)-18(2x-9)$