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 4

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 8 week 4 Chapter 4 Reete and Proportion Rate and Proportion Reste and Proportion are commonly used in our everyday life. Sxamples includes the exchange rate heart rate speed cooking, construction and scale maps. Rafe is used to compare two quantities with different units. It shows how a guartity changes with respect to another quantity. For mample, apples are an scales at 3 for by w, himator are sold at Ro 45 per leg or a weather earns Ro 100 per hours hour. Escample A bus cover a distance of loken using & litres of fuel Calculate the rate at which the bus consumes fuel rate 181 are used to cover to kin 16. is used to cover 10 km = 1-25 km Hence the rate at which the bus consumer fuel is 1.25 km/L

Example 2	O Mathantes
Jessma, a clerk typist, co.	in type 150 words
in 3 minutes.	med han it is
(a) find her typing rate	Total May 15-15
(b) Find how long she we address of door w	ill rate to type
a document of door in	surds.
solution	11. W. Frankricht.
(9) 3 minutes _ 1. 150 word	le
1 minutes _ 150 words	= so worde
to locate for quartifier	Cake as weed
Thus, her typing rate is so	a winde and
minule or on liquide I min	s comes per
minute or so words/min	the said
(b) Turing kalo - on in la la	· · · · · · · · · · · · · · · · · · ·
(b) Typing rate = 50 words /m So worde _ p /minu	1-
Jo words _ p Imina	10
lwords of minu	te man
doc words 1/2 x d	800 minutes
2800 words \$ /1 x 2	
the start status for the	10 31411 3
1 = 56 m	inutes
she will take 56 minu	ites to type
2800 words.	1201 HW 73
1. 10011 10 per - 1.22 per	4121 3 71

	Exercise 1 Sibella can type 840 words in 12 minutes. What is her typing rate?
1.	Sibella can type 840 words in 12 minutes
ra 1320	What is her typing rate?
	ment for en land, Hellen
2.	Persanen is paid Ps 6080 for 8 hours of work. What is his hourly rate of pay?
	of work. What is his hourly rate of
	pay?
3.	Didel can travel is min kn with life
	of petrol How many litres of petrol to
•	Didel can travel is min ken with I litre of petrol he travel 240 km?
Sp.	In a competition thow scored It points in 9 games Find his score per games.
	in 9 games Find his score per games.
	,
5-	Whishele drove 560 km in 4 hours. Find
10/	the distance he covered per here.
6.	Hjay reeds to put 42 Chevirs in 6
(0.0	Rooms
(a)	How many chairs an each went
(1)	Contain!
(b)	In how many woms can be put to
	Ajay reeds h put 42 cheirs in 6 rooms How many chairs on each hom Contain? In how many noms can be put 98 chairs.
	de against to the as stated that the extension
	2338

	Compound units
1	A compound unit is one that has
	A compound unst is one that has two or more different types of measure- ment, for e-g, /cm/h, /2s//cg
	ment, for e-g, lam/h, Ps/12g
17	I. Perringer is awild to the for for a liver
	Conversion of compound units
	Snample
	Convert Rs 60/129 to conts/g
1	Solution
7	1/2 costs Ps 60
	loco g cost (60×100) conts
	ly costs Goxlov conts = 6 cont
8	24 th processed 100/1/2010 10 41 44
1	So Re Gofteg Re Gofteg is 6 cont/g
/	
10	We first convert leg into g and ke into
	eve first convert leg into 9 and Re into conto. We then find the unit rate for 19.
	Example 1 11 11 11 11 11
	If a car is travelling at 97.2 km/h on the motorway, find its speed in m/s
	on the motorway, find its speed in m/s
1/2	Solution to the second of the
	In Thour the car travels 97.2 lens In 3600s, the car travel (47.2 x lood) m
	In Is, the car travels 97.2×1000 m
	3600
	=27m
	- 87 N
	1 hr = 60 min
	60 min = 3600 s
	/min = 60s

	Example
	Convert 15 m/s to km/h
	Solution
	In 1s, a distance of 15 m is convered In 3600s, a distance of (15x3600) m is
	In 36000 a distance of (15x3600) m is
	Convered Convered
	In th, a distance of 15x3600 lem
	1000
	= 54 km is convered
	Hence 15 m/s = 54 lon/h
	Exercise
	Convert the following
	18 km/h h m/s
	0.5 km/h /2 m/s
(c)	Ps 24/1cg to conts/g
(4)	210 m/min to mm/s
(0)	0.3 scm/min lo compe
2.	A plane is plying at The longh. Find its
	speed in m/s
,	
3-	Ismael runs a distance of sloom in 30
	minutes Find his speed in lemph.
Lı.	A took is borne Polled at a rate of
	A tank is being filled at a rate of
Cal	End the rate in mb/h
(6)	IP the tank is Billed in oak find its
. 13	Find the rate in ml/h If the tank is filled in 0-8h, find its Capacity in litres.
	against the second