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 7

Week 5

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 7 week 5
	Platremany U. a.
	Deimals. Francisco (6)
	We after use decimal numbers in our
	everyday lives, such as when dealing with
	money and in measurements of length, news,
	fine and so on.
	EXP1 &
	Decimal system
	3.567
	Units I Thousandths
	. Hundredth
	Tenths.
	Do Cini han
1-91	Definition A deimal number consists of a whele number part a decimal point and a fractional part.
0	number part a desimal point and a
	Crustianal parts
	Prince point point
	fractional part. Desimal point.
	Whole Number of In Fractional Part
	part.
	pure.
	Converting Free Free Land to decise to
à i	Converting fractions to decimals. Fractions whose donominature are powers of
1	10.
	Example
0	Convert the following into decimels.
4)	
	1000 100

	(0.7.0:0.7
	Converting fractions to decimals Fractions whose denominators are Powers of 16 Enample 3, 3, 3, 3 10 100 1000 10000
*	Fructions whose denominators are
	Powers of 16
1	Firefore where districtly rank !
	Enample
	3 3 Normon's
- \	10 100 1000 10000
	start from here don't from here
	3-0.3,7 3 = 0,03,1
	10 1 100 12 milulos
	18 part baker 12 more 2 will be to have
	3 -000 3 = 0:003 hate from the
	3 - 0.3, $3 = 0.03$, 3 start from here $3 - 0.3$, $3 = 0.03$, 3 start from here $3 - 0.00$, $3 = 0.003$, 3 start from here $3 - 0.00$, $3 = 0.003$, 3 start from here $3 - 0.00$, $3 = 0.003$, 3 start from here
	1 23 have
000	3 6 0,0003, istart from
1	10000 1234 Start from here.
	1234
	Note: Whenever you devide by a dineminator
	you start should start from left. and
	Note: Whenever you devide by a dineminator you start should start from left. and count how many Zen are there.

-	Convert the Ollawing into docimale
(a)	Convert the following into decimals.
	100 10 1000
	Solution
(a)	199 191 = 1:91. (6) 13 = 1:3,
1151	100
	12
(c)	9=0:009
7	1000
110	123
	01 10 00 16
	Fractions whose donominators can be
	Enample
	Filmings 16
	Convert the following to a decimal
(a)	3 (b) 5
	Solution
(a)	3 Note: 5 mean 3 divided by &
	40.0
	5 4/3-0 000)
	:. 4/3.00 28 in 30 we got 28 which mean
	0.75 7 when we dévide my 4
1011	2 - 6.75 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
00	that when their solars from their
	hand have men to the series

(6)	were cort of the following
(0)	a partie of the lawest law: 8
	: 8/s.000
17	0.625
	free trace in the law of there
	8 8
	8
	10 C115 = 10 = 11 (11 2.20 - 0.25
	Example
	Convert the following to a decimal
	Enample
	Enpress the following mined numbers as
	deinets.
(a)	23 (6) /4
	Solution
(9)	23-23 Recal on example of fruction
	10 10 of week 4.
-	= 2.3
(b)	11 112 5 1/20 1 27
	1 1 = 125 5 Note 1 = 0.25
	!
	$= 1.25 \qquad \frac{5}{4} \cdot 5 \times \frac{1}{4}$

Convert each of the following into a fraction in its lowest term: each of the following into a in its lowest term: Demember = when there is three figure is must divide by 100 for example (0.18) - when four figure divide by 1000 = When 2 figure divide by 10.

Exercise: Ex2 (a-h), Ex3(a-e), Ex4(a-j)

2.	Convert the follow	ing decimals int	to fractions, givi	fractions, giving your answers in the lowes	

- (a) 0.39
- (b) 0.75
- (c) 0.4
- (d) 0.36
- (e) 0.412

- (f) 0.02
- (q) 0.04
- (h) 0.032 (i) 0.65
- (j) 0.0925

3. Express each of the following decimals as a mixed number in its lowest term.

- (a) 2.4
- (b) 7.05
- (c) 6.03 (d) 11.40
- (e) 5.55

4. Express the following as decimals.

- (a) $\frac{8}{10}$

- (b) $\frac{47}{100}$ (c) $\frac{215}{10}$ (d) $\frac{25}{1000}$
- (e) $\frac{17}{200}$

- (f) $\frac{22}{5}$
- (g) $\frac{7}{25}$ (h) $2\frac{7}{10}$ (i) $4\frac{1}{5}$

Addition and Subtraction

Example

Svaluate (a) 12.43 + 4.687

(b) 45.043-28.21

Solution (a) 3 10 10

(c) 12.430 (b) 45.043

4.687 + 28.210
17.117 16.843

Note: When we add or subtract two or more decimal numbers we need to place the numbers in the correct place value column. The decimal points need to be aligned one under the other.

Exercise: Ex1(a-h), Ex2(a-h), Ex3(a-e).

1.	. Find the value of			
	(a) 3.6 + 4.2	(b) 2.53 + 1.24	(c) 55.75 + 56.4	(d) 31.7 + 21.005

(e)
$$205.5 + 41.47$$
 (f) $13.12 + 27.6$ (g) $0.0053 + 1.049$ (h) $125.01 + 15.5 + 2.7$

2. Evaluate

3. Evaluate

(a)
$$5.55 + 4.2 - 6.34$$
 (b) $12.45 + 0.321 - 2.516$ (c) $8.214 - 3.028 + 5.141$

(d)
$$13.2 - 7.11 + 8.221$$
 (e) $2.397 - 4.215 + 7.233$ (f) $21.07 - 11.18 + 42.02$

Multiplication of Decimal Numbers
Malholication of a decimal number by
power by powers of lo
Grample
Calculate:
(a) 1.56 x10 (b) 0.00327 x1000
c books to
(a) 1.56 x 10 = 156
= 15-6
a some he will a detected a

(b) a con 7 x 10 - 10 - 20 7	
(b) 0.00327 ×1000=0190327	
tonk for some a service	
Note: When multiplying a decime	al number
by (i) to the decimal point me	oves 1
digit to the right	6-12.
Note: When multiplying a decimo by (i) 10, the decimal point me digit to the right	*13
(ii) 100 the decimal point mo digit to the right	c esi
digit to the right	7
1 (C) 1 (1) (1) (1) (1) (1)	
(iii) look the decimal point a digit to the right	moves
a digit to the right	
Host imaghathe shall dande con	han
many Ferry thone on is in the	o humber
Most importantly it all depends on many zero there in is in the to number to multiply with.	e reassign
reluktighter and a	•
Multiplication of a docimal nun	aber by
a whole number	J
Multiplication of a decimal num a whole number Example Calculate 0.56 x50 Salution	
Calculate 0.56 x50	0.1-1
Solution 0.56 x50 = Se 0,56 x10 x5 the	H 1.
	ineci
= 5.6×5	5.1 F.SV-
Method 2	
0.56×50 = 28 0.56 File	rack take
XSQ dag	cidoration
Note: 1st multiply it using 000 g	
Note: 1st multiply it using 000 g	
Point how many number there it. In this case are 4 humber.	11
foint how many humber there it. In this case	There
are (functions)	

Exercise: Ex1(a-h), Ex2(a-h), Ex3(a-h).

1. Calculate:

(a) 0.3×10

(b) 1.21×10

(c) 4.06×1000

(d) 0.7×100

(e) 3.452 × 1 000

(f) 30.7×100

(g) 0.143×100

(h) 21.7×100

2. Calculate:

(a) 0.4×8

(b) 0.27×3

(c) 2.4×12

(d) 0.07×25

(e) 0.42×30

(f) 0.7×50

(g) 6.72×16

(h) 1.5×2000

3. Calculate:

(a) 0.2×0.6

(b) 0.32×0.9

(c) 2.25×1.3

(d) 1.72×2.1

(e) 52.3×0.2

(f) 2.31×2.9

(g) 0.042×7.3

(h) 0.86×2.52

Division or decimal numbers.
Division of a decimal numbers. Division of a decimal number by power of
10
Example
Catalate (a) 283.31-100 (b) 7350.2-1000
Sulution
(a) 283.31=100 = 283.31
211 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
= 2.8331
Stanzant 3
(b) 7350.2 - 1900 = 7350.2
321 341
not blanks have 7.350 1 100 - con - 0015
Note: When divided a decimal number by (i) 10, the decimal point moves I digit
to the left
and the state of the same of t
(ii) loo, the docimal point moves 2 digit to
the left
(iii) loca the decimal point moves 3 digit to the
reft left
The manufacture of the state of
Same as multiplication it depends on howard
many zew the number have and Remember
Same as multiplication it depends on haveour many zew the number have and Remember left is for multiplication and right it is for multiplication
2

	Division of a decimal number by
	a whole number
	Example.
	Calculate: 1:2:4
	Solution
	Societion i maintain a mainti
	1.2 = 41 = 10 de marche 10 march 10 march 10
	4/1.2
	O·3
	:.1.2 = 4=0.3
	10,000 - AFLTOISE (10)
	Prision of a decimal number by another
	decimal number
	Example
	Calculate: 4.8 =0.2
	Solution
7-1	= 48 both humerator and denominator
-	= 24 it should more to the
9 7	right to remove it for
-	enample.
1	0 568 - 568
	The decimal point should
	be at the rehind
	the last number of the
12-	decimal number

Exercise: Ex1(a-h), Ex2(a-f), Ex3(a-f), Ex4(a-f).

Calculate:

(a) 2.9 ÷ 10

(b) $5.2 \div 100$ (c) $0.347 \div 10$ (d) $5.9 \div 1000$

(e) 12.53 ÷ 100

(f) $99.7 \div 10$ (g) $646.1 \div 100$ (h) $0.0025 \div 100$

Calculate:

(a) 3.6 ÷ 9 (b) 0.42 ÷ 7

(c) $16.5 \div 5$

(d) 248.2 ÷ 2 (e) 33.9 ÷ 3

(f) $256.8 \div 32$

Calculate:

(a) 7.2 ÷ 60

(b) $242.8 \div 20$ (c)

55.22 ÷ 11

0.0345 ÷ 50

(e) 0.216 ÷ 16

(f) $42.12 \div 12$

Calculate:

(a) 3.8 ÷ 0.2

(b) $0.234 \div 0.3$

(c) $0.0012 \div 0.6$

156.3 ÷ 0.6

(e) $745.5 \div 1.5$ (f) $0.07 \div 0.0028$