Answer Key for Grade 5 – Quarter #3

(for both individual work and for group work)

Notes for Parents:

- This document is intended for parents and teachers – not for students.
- This answer key doesn't include all answers.

Week 17

Group Assignment:

1) 84
2) 726
3) 357
4) 1,457
5) 5,170 r 2

6) $10
7) 15 months

Individual Work:

1) $1\frac{2}{15}$
2) $1\frac{2}{15}$
3) 5/12
4) 11/30
5) 6/25
6) $^{2}/_{3}$
7) $3\ ^{3}/_{7}$
8) $^{1}/_{5}$
9) $^{3}/_{7}$
10) $^{8}/_{9}$

Week 18

Group Assignment:

for Tuesday.

Hint for #6-9: First translate the each fraction into equivalent fractions with common denominators.

for Thursday.

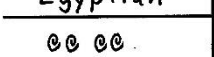
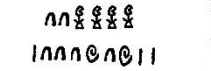
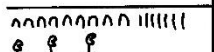
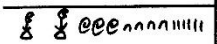
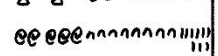
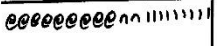
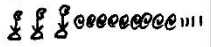
1) 28 and 19
2) 21 and 4
3) 28 and 3

Individual Work:

I	1
II	2
III	3
IV	4
V	5
VI	6
VII	7
VIII	8
IX	9
X	10
XI	11
XII	12
XIII	13
XIV	14
XV	15
XVI	16
XVII	17
XVIII	18
XIX	19
XX	20
XXI	21
XXII	22
XXIII	23
XXIV	24
XXV	25
XXVI	26
XXVII	27
XXVIII	28
XXIX	29
XXX	30
XXXI	31
XXXII	32
XXXIII	33
XXXIV	34

XXXV	35
XXXVI	36
XXXVII	37
XXXVIII	38
XXXIX	39
XL	40
XLI	41
XLII	42
XLIII	43
XLIV	44
XLV	45
XLVI	46
XLVII	47
XLVIII	48
XLIX	49
L	50
LI	51
LII	52
LIII	53
LIV	54
LV	55
LVI	56
LVII	57
LVIII	58
LIX	59
LX	60
LXI	61
LXII	62
LXIII	63
LXIV	64
LXV	65
LXVI	66
LXVII	67
LXVIII	68

LXIX	69
LXX	70
LXXI	71
LXXII	72
LXXIII	73
LXXIV	74
LXXV	75
LXXVI	76
LXXVII	77
LXXVIII	78
LXXIX	79
LXXX	80
LXXXI	81
LXXXII	82
LXXXIII	83
LXXXIV	84
LXXXV	85
LXXXVI	86
LXXXVII	87
LXXXVIII	88
LXXXIX	89
XC	90
XCI	91
XCII	92
XCIII	93
XCIV	94
XCV	95
XCVI	96
XCVII	97
XCVIII	98
XCIX	99
C	100

Egyptian	Roman	Greek	Arabic
	CD	ϡ	400
	MMMMXX	,δκ	4020
	CCXLIII	σμγ	243
	XCVII	ϛξ	97
	MMM	,γ	3000
	MCDXLVI	,αϡμϛ	1446
	MMCCCXLVI	,βτμϛ	2346
	DLXXXIX	φπθ	589
	CDXXX	ϡλ	430
	CMXXIX	,ϡκθ	929
	XLVI	μϛ	46
	MMMCMIV	,γϡδ	3904

1) $^5/_9$
2) 19/89
3) 1 13/24
4) $^5/_6$
5) 4/55
6) $2\ ^1/_7$
7) 44/45
8) 89/165
9) $1{,}175\ ^1/_8$
10) ⅓
11) $3\frac{5}{8}$
12) $2\frac{3}{25}$
13) 0, 27
14) 0, 33, 20
15) $^3/_5$
16) $^7/_8$
17) $½ + \frac{1}{6}$
18) $½ + \frac{1}{16}$
19) $¼ + \frac{1}{28}$

Week 19

Group Assignment:

for Tuesday.

1) a. 39/100
   b. 69/100
   c. 283/1,000
   d. 9341/10,000

4) a. 2/10 + 9/100
   b. 3/10 + 7/100 + 5/1,000
   c. 7/10 + 4/1,000
   d. $\frac{2}{10} + \frac{4}{100} + \frac{7}{1000} + \frac{3}{10000} + \frac{9}{100000}$

5) a. 35, 24
   b. 7, 30
   c. 5, 42

for Thursday.

1)
   a. 47/100 ; 4/10 + 7/100
   b. 381/1,000; 3/10 + 8/100 + 1/1,000
   c. 2743/10,000; 2/10 + 7/100 + 4/1,000 + 3/10,000
   d. 253759/1,000,000; 2/10 + 5/100 + 3/1,000 + 7/10,000 + 5/100,000 + 9/1,000,000
   e. 47/10,000; 4/1,000 + 7/10,000
   f. 204/10,000; 2/100 + 4/10,000
   g. 2/100; 2/100

2)
   a. 0.13
   b. 0.693
   c. 0.3
   d. 0.03
   e. 0.003
   f. 0.000003
   g. 0.0613
   h. 0.00039
   i. 0.2
   j. 0.35
   k. 0.68
   l. 0.2975

3) Emily has 9 pets

Individual Work:

1) 1 ⅛
2) 3/13
3) 29/30
4) 1/42
5) 15/32
6) 2
7) 27/70
8) $1\frac{77}{120}$
9) 843
10) 0.776
11) $\frac{5}{32}$

Week 20

Group Assignment:

for Tuesday.

3) a) 200 cm c) 3700 cm e) 0.6 m g) 0.83 m i) 253 cm
b) 500 cm d) 6 m f) 0.06 h) 8.3 m j) 0.004 cm

4) a) 0.09 b) 0.455 c) 4.18

5) a) 2.512 b) 0.607 c) 31.64 d) 8.07

for Thursday. (Note, again, that the volume and weight tables would be the same)

Length	km	m	cm	mm
km	1	$\frac{1}{1000}$	$\frac{1}{100000}$	$\frac{1}{1000000}$
m	1000	1	$\frac{1}{100}$	$\frac{1}{1000}$
cm	100,000	100	1	$\frac{1}{10}$
mm	1,000,000	1000	10	1

2) a). 5,000 mm c) 37,000 mg e) 28 cl = 0.28 l
b) 8,000 ml d) 40 cm = 0.4 m f) 6,000 g = 6,000,000 mg

3) a) 0.08 b) 0.18 c) 0.0028

4) a) 0.72 b) 0.0006 c) 0.00042 d) 0.0000943

Individual Work:

1) a) 59/100; 5/10 + 9/100 c) 287/1,000; 2/10 + 8/100 + 7/1,000
b) 23/10,000; 2/1,000 + 3/10,000 d) 4/100; 4/100

2) a) 0.73 c) 0.006 e) 0.8364 g) 0.75
b) 0.923 d) 0.0023 f) 0.8 h) 0.00075

Week 21

Group Assignment:

for Tuesday.

1) a) 300 cm d) 3,000 mm g) 60 j) 0.7 m
b) 7,500 cl e) 30 cm h) 79 m k) 0.07 m
c) 37,000 mg f) 8,000 m i) 7 m l) 400 g

2) 0.15 4) 0.0054 6) 0.448 8) 0.084
3) 0.609 5) 0.0054 7) 0.745 9) 0.084
10) ¾, 7/9, 4/5

for Thursday.

1) a) 12.3 d) 12 g) 0.8 j) 53.7
b) 123 e) 120 h) 0.08 k) 4382.7
c) 1,230 f) 8 i) 0.8 l) 438,270

2) Jenny paid $11.50 3) $50.4

Individual Work (for Week #21):

1) a) 8,000 mm
b) 13,000 mℓ
c) 820,000 mg
d) 700 cm = 7 m
e) 90 cℓ = 0.9 ℓ
f) 2,000 g = 2,000,000 mg

2) a) 1/10
b) 1 4/13
c) 1 3/20
d) 15/56
e) 21/400
f) 12/25
g) 4

3) a) 0.594
b) 83.206
c) 1.72
d) 16.7
e) 0.0512
f) 0.68
g) 0.35
h) 0.08
i) 0.000044
j) 0.00195

4) a) 694/1,000; 6/10 + 9/100 + 4/1,000
b) 87/10,000; 8/1,000 + 7/10,000

5) a) 0.17
b) 0.073
c) 0.18
d) 0.565

Week 22

Group Assignment:

for Tuesday.

1) 12
2) 12.3
3) 0.123
4) 0.03
5) 0.003
6) 0.00003
7) 9.56
8) 0.0384
9) 0.0043827
10) 0.04
11) 0.000048
12) 0.00066
13) 6/15
14) 5/14
15) 7/15
16) 23/48

for Thursday.

1) a) 0.03 m
b) 0.0038 m
c) 2,340 cl
d) 800 mg
e) 0.36 cm
f) 8,710 m
g) 0.067 kg
h) 67,000 g
i) 40 ml
j) 0.00004 l
k) 0.0000175 km
l) 2,365,000 mg

2) approximately 11 ½ years

Individual Work:

1) a) 3/20
b) 33/53
c) 1 11/40
d) ¼
e) 5/144
f) 1 2/5
g) 2 ¾

2) a) 0.683
b) 3.2702
c) 4.32
d) 26.47
e) 0.14
f) 0.412
g) 0.07
h) 0.00003
i) 0.00072
j) 0.27

3) a) 27/100; 2/10 + 7/100
b) 749/100,000; 7/1,000 + 4/10,000 + 9/100,000

4) a) 0.317
b) 0.07
c) 0.96
d) 0.825
e) 0.333 (3 repeats)

Week 23

Group Assignment:

for Tuesday.

1) 24 apples
2) $12
3) $0.90
4) 18, 12
5) 17, 23

for Thursday.

2) There would need to be at least six children – three girls and three boys.
3) 11 quarters and 14 nickels
4) 80 times 6 ounces is 3¾ gallons. She needs to buy 4 gallons.

(More) Individual Work:

1) 2 ½ apples
2) 1/3 of an apple
3) $3.40, $10.20
4) 3,500g, 3.5 kg
5) 19,198
6) 316
7) 1,954
8) 1,924
9) 173,992
10) 237
11) 461 7/12

Week 24

Group Assignment:

1) 11 2) 32 3) 69

4) To get the next term, you just multiply the last term by 10, and then subtract 3. But maybe someone discovered a different pattern.
4, 37, 367, 3667, 36667, 366667, etc.

5) *This is the Fibonacci Sequence!* (which we will study more in 7thgrade and in 11th grade.). Add the last 2 numbers in the sequence. 1, 1, 2, 3, 5, 8, 13, 21, 34, etc.

7) $11.90 8) $700, $437.50 9) 75 feet 10) 1 ¼ feet

Individual Work:

1) add 4 to the last number: 9, 13, 17, 21, 25, 29, 33, etc.
2) add 13 to the last number: 7, 20, 33, 46, 59, 72, 85, etc.
3) Multiply the last number by 5: 4, 40, 100, 500, 2,500, etc.
4) Multiply by 2 and then subtract 6,
or you can see that the difference between each number in the sequence doubles:
9, 12, 18, 30, 54, 102, etc.

5) $22
6) $612
7) $64.75
8) 33,430
9) 436
10) 4,456
11) 1,088
12) 532,323
13) 127 3/5
14) 1,893