

6th Grade Quarter 1 Exam key

Name	
Date	

Closed Book; 60 minutes to complete; show units; show work.

CUCC

1. Please convert the fraction to a decimal:

619	fraction	decimal
	5 1/3	5.33
	1/9	.11

fraction	decimal
21/25	.84
25/21	1.19

When you convert 5/6 to a decimal, is it a repeating decimal or a terminating decimal?

619

repeating

The formula for the area of a triangle is one-half x base x height $(1/2 \times b \times h)$. Find 3. the area of a triangle with a base of 16 cm and a height of 12 cm.

615

96 sq cm

4. You are going on a trip to Mexico, and you want to convert your dollars (d) into pesos (p). Your bank tells you that the exchange rate is 11.5 pesos for one dollar. You have \$500 dollars. How many pesos can you get for \$500? Write a formula, then solve.

615

formula	solution	
d = 11.5p	5750	

You are now 54" tall. You have been growing 1/4" per month. Write an expression to predict how tall (H) you will be after x months.

612

H = 54 + .25x

6.

You have been adding 5 friends ("F") per month on Facebook. You now have 12 friends. Write an expression to predict how many friends you'll have after X months.

612

F = 12 + 5X

Solve: 7.

$$3^2 - (5 + 2) =$$

2

611

611

Will y get larger or smaller as x increases: 6 - x = y8.

smaller

9.

Complete the table:

611

Expression	Number	Variable	Operations
2y - 6	2,6	У	X, -
3b + 9	3,9	b	X, +

10.	Use compatible numbers to estimate the	answer	
616	4/7 x 300 150	Is your estimate higher or	smaller
		smaller than the actual	
	602 / 300 2	answer?	smaller
11.	You shoot 806 free throws, and you make	1/4 of them. Estimate how many fr	-ee
	throws you make.	F	
616		L	200
12.	You have 8 cups of flour. It takes 1/3 cups cookies can you make?	s of flour to make a cookie. How ma	any
618			24
		_	
13.	The table below shows the portion of you	r allowance you chand an different	itoms
	How many times more do you spend on m	3 '	items.
618	Expense Allowance	ovies than you spend on shacks:	
0.0	movies 1/4	Г	2
	snacks 1/8	-	
	others 1/32		
	music 3/32		
	savings 1/2		
1 /	McDougal's Burgers sells quarter pound b	urgers. They start the day with 75	nounds
14.	of hamburger meat. How many burgers w		pourius
618	or names. ger mean many burgers in		300
		•	
15.	Mom throws a party for you and 4 of your	friends. She spends \$15 on food. H	ow
	much does she spend per person (x)?		
612		•	
		15 = 5x	solution
16.			solution 3
10.	Write an expression and evaluate $y = 2$. - 6	
	Write an expression and evaluate. x = 3, y x more than the product of a n		
612	Write an expression and evaluate. x = 3, y x more than the product of a n	umber y and 2.	3
	-		
	-	umber y and 2. expression	3 solution
	x more than the product of a n	expression 2y + x	3 solution
612	x more than the product of a n	umber y and 2. expression	3 solution
61217.	x more than the product of a n	expression 2y + x 8 x 1/3 3/8	solution 15
61217.617	x more than the product of a number of the product and simplify $\frac{4}{5} \times \frac{1}{3} = \frac{4}{15}$	expression 2y + x 8 x 1/3 3/8	solution 15 CD's does
61217.617	x more than the product of a number of the product and simplify $ \frac{4}{5} \times \frac{1}{3} \frac{4}{15} $ Your Dad's CD collection has 72 CD's. 1/3	expression 2y + x 8 x 1/3 3/8	solution 15

than 5'. How many of the boys are taller than 5'?

617 10

20. True or False: Does A = B?

6 - 8

5 + x

613 6 + 8 8 + 6 У

8 - 6

x + 5

А	В	equal?
3 / (5 / 1)	(3 / 5) / 1	у
(8 - 6) - 1	8 - (6 - 5)	n
3 * x	x * 3	у

40 + 19x

Simplify the expression: 8 + 3x + 2x + 4 - 1221.

5x 613

Simplify thie expression: 3(6 - x) + 22(x + 1)22.

614

Write an expression and simplify: 2 times the sum of a number (x) plus 3 23.

n

У

2x + 6 614

Results			
<u>%</u>	<u>?'s</u>	<u>Wrong</u>	<u>Concept</u>
100%	7 - 9		Evaluating Expressions
100%	5-6,15-16		Writing Expressions
100%	20-21		Properties of Addition and Multiplication
100%	22-23		Distributive Property
100%	3-4		Use Formulas to Solve Problems
100%	10-11		Estimating with Fractions
100%	17-19		Multiplying Fractions and Mixed Numbers
100%	12-14		Dividing Fractions and Mixed Numbers
#####	1-2		Fraction-Decimal Equivalency
100%		0	Total