

6th Grade Quarter 1 Exam

Name	
Date	

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

CUCC

1. Please convert the fraction to a decimal:

fraction	decimal
5 1/3	
1/9	

fraction	decimal
21/25	
25/21	

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

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

formula	solution

5. 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.

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.

7. Solve: $3^2 - (5 + 2) =$

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

9. Complete the table:

Expression	Numbers	Variables	Operations
2y - 6			
3b + 9			

10.	Use compatible numbers to estimate the answer
	4/7 x 300 Is your estimate larger or
	smaller than the actual
	602 / 300 answer?
11.	You shoot 806 free throws, and you make 1/4 of them. Estimate how many free
	throws you make.
12.	You have 8 cups of flour. It takes 1/3 cups of flour to make a cookie. How many
	cookies can you make?
13.	
	The table below shows the portion of your allowance you spend on different items.
	How many times more do you spend on movies than you spend on snacks?
	Expense Allowance
	movies 1/4
	snacks 1/8
	others 1/32
	music 3/32
	savings 1/2
44	McDougal's Burgers sells quarter pound burgers. They start the day with 75 pounds
14.	of hamburger meat. How many burgers will McDougals be able to make?
	The second secon
	<u></u>
15.	Mom throws a party for you and 4 of your friends. She spends \$15 on food. How
	much does she spend per person (x)?
	expression solution
16.	Write an expression and evaluate. $x = 3$, $y = 6$
	x more than the product of a number y and 2.
	expression solution
17.	Find the product and simplify
	4/5 x 1/3
	V
18.	Your Dad's CD collection has 72 CD's. 1/3 of them are by U2. How many U2 CD's does
	your Dad have?
	1/3rd of the 45 students in a math class are boys. Among the boys, 2/3rds are taller
19.	
	than 5. now many of the boys are tailer than 5?
	than 5'. How many of the boys are taller than 5'?

20. True or False: Does A = B?

A	В	equal?
6 + 8	8 + 6	
6 - 8	8 - 6	
5 + x	x + 5	

Α	В	equal?
3 / (5 / 1)	(3 / 5) / 1	
(8 - 6) - 1	8 - (6 - 5)	
3 * x	x * 3	

21. Simplify the expression: 8 + 3x + 2x + 4 - 12

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

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

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