Math 6 Item Bank - Unit 4 Operations with Multi-Digit Whole Numbers and Decimals
NC.6.NS.2 Fluently divide using long division with a minimum of a four-digit dividend and interpret the quotient and remainder in context.
NC.6.NS.3 Apply and extend previous understandings of decimals to develop and fluently use the standard algorithms for addition, subtraction, multiplication and division of decimals

Multiple Choice	Open-Ended	Gridded Response

Tayrn went to an NC State football game. She spent $70 on a ticket, $13.87 on popcorn and $5.75 on a soda. How much money did Tayrn spend at the game?
 	
  a. $141.37
  b. **$89.62**
  c. $83.87
  d. $20.32
	Jacob's mom filled his car with gas. The gas costs $2.28 per gallon. The total cost of the gas was $27.36. How many gallons of gas did Jacob's mom put in the car? Explain how you answered this problem.
	
	12 gallons
		Danny is having his 12th birthday at the movie theater. The cost of a movie ticket is $4.50, and he invites 7 of his friends. Including himself, how much will tickets for his party cost?
		
		$36.00

The grocery store is having sale and Takis are $0.95 per bag. You have 53 bags for your birthday party. How much are you charged?
  a. $0.56
  b. $53.95
  c. **$50.35**
  d. $503.50
	Rachel and her dad went shopping at Harris Teeter. Her dad bought 2 dozen of oranges for $4.45 per dozen. What was the cost for each orange? Explain your reasoning.
	
	$00.37
		You have $50.75 in your wallet. You decide going to take a roadtrip to the beach. Gas costs you $32.63. You also buy lunch for $8.37. How much money do you have left?
		
		$9.75

At the end of the year, the 6th grade teachers buy candy for each student. The teachers decided that every child will get the same amount of candy. If the teachers buy 4,184 pieces of candy for the 523 6th graders at your school, how many pieces of candy does each student get?
 	
  a. 6 pieces
  b. **8 pieces**
  c. 10 pieces
  d. 12 pieces
	Caleb has $673.87 in his bank account. How much money will he have left in his account if he uses his debit card 4 times, each time for $17.32?
	
	$604.59
		Ashten buys four pairs of brand new basketball shoes. The total cost is $532. What is the average cost per pair of shoes?
		
		$133

Charlie's grandfather owns a local car dealership. The dealership has 322 cars for sale on their lot. They ask Charlie to figure out how many rows of cars they will have on the lot, if they put 23 cars on each row. How many rows will the dealership have?
 	
  a. **14 rows of cars**
  b. 15 rows of cars
  c. 20 rows of cars
  d. 22 rows of cars
	You can buy 3 shirts at Target for the same price that you can buy 5 shirts at Walmart. If one shirt at Target posts $7, how much does one shirt at Walmart cost?
	
	$4.20
		What is the sum of 10.756 and 3.72?
		
		14.476

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Otis find 636 colored pencils in his art teacher's classroom. If colored pencils come in boxes of 12 at the store, how many boxes had his art teacher purchased? a. 50 colored pencil boxes **b. 53 colored pencil boxes** c. 55 colored pencil boxes d. 60 colored pencil boxes	There are 1320 students at your middle school. If each classroom holds 30 students, how many classrooms does your school need this year? Show your work using the standard algorithm. **44 rooms**	What is the difference between 19.37 and 6.1875? **13.1825**
Your favorite ice cream store sells a single scoop ice cream cone for $4.75. Last night, they made $137.75 selling single scoop ice cream cones. How many cones did they sell? **a. 29 cones** b. 20 cones c. 30 cones d. 39 cones	What is the sum of 13.456, 2.6 and 732.75? **748.806**	What is the product of 3.2 and 17.32? **55.424**
What is the sum of 76.54 + 890.123 + 4.5? **a. 971.163** b. 972 c. 897.822 d. 966.663	When you are adding numbers that have decimals, your teacher tells you that it is important to line up the decimals, why? Explain, in your own words, why it is so important to line up decimals. You can use an example problem to help defend your answer. **Open response. Student should include information about how the decimal allows the person to make sure that they are adding the right numbers in the correct place value.**	What is the quotient of $1.6 \div 1.2$? **1 ⅓ or 4/3**

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You find a new cell phone that you would really like to have. Your parents tell you that you can have the cell phone if you have pay for the cost of the phone and 6 months of the cell phone plan. The cost of the phone is $199, and it will cost $15.50 per month for you to be on the family cell phone plan. How much money do you need to save before you can buy the phone?
 	
   a. $93.00
   b. $214.50
   c. $292.00
   d. $1,194.00
	Your parents allow you to download 5 songs for your iPhone each month. If each song is $1.99, how much money do they spend for these 5 songs each month? How much money do they allow you to spend each year on music?
	
	$9.95 a month and $119.40 a year.
		David buys 13 boxes of cookies, at $2.75 each. He uses a coupon for $4.00 off his total order at checkout. What was his total bill?
		
		$31.75

Amari is going shopping for back to school clothes. She picks out 3 shirts for $9.99 each, a pair of jeans for $32.75 and 2 pairs of shoes for $45.80 each. When she gets to the cashier, she has a coupon for $5.00 off her total purchase. What is the total of Amari's shopping trip?
 	
   a. $88.54
   b. $83.54
   c. $154.32
   d. $149.32
	RJ decides that he is going to buy a car for $15,500. The car dealership gives him 3 years to pay off the car in equal monthly payments. How much will RJ pay each month, if we wants to pay all $15,500 at the end of the third year?
	
	$430.56
		What is the product of 90.12 and 17?
		
		1532.04

The school basketball team scores a total of 458 points this past season. If the team played 16 games, what was the point per game average, rounded to the hundredth?
 	
   a.   286.3 points per game
   b.   29 points per game
   c.   28.63 points per game
   d.   30 points per game
	When you go to the grocery store, you see that you can buy a 12 pack of soda for $3.99 or a can of soda for $0.30. Which price offers the lowest cost per can? Explain your answer using words and pictures.
	
	Per can is 2 cents cheaper.
		What is the quotient of 1674 ÷ 75?
		
		22.32