

Rubric

Bike Shop

Categories	Criteria				
	3 points Exceptional	2 points Proficient	l point Approaching Proficiency	0 points Not Proficient	Points Earned
Finding Unknowns	All unknowns in multiplication and division equations were found correctly	Most unknowns in multiplication and division equations were found correctly	Some unknowns in multiplication and division equations were found correctly	None of the unknowns in multiplication and division equations were found correctly	
Use of Properties	All multiplication and division properties were used correctly, as needed	Most multiplication and division properties were used correctly, as needed	Some multiplication and division properties were used correctly as needed	None of the multiplication and division properties were used correctly, as needed	
Sign	All aspects of the sign were completed correctly	Most aspects of the sign were completed correctly	Some aspects of the sign were completed correctly	None of the aspects of the sign were completed correctly	
	erth	6		,	
Rtc.	X				

Student Name: _____



Bike Shop



This task will provide you with the opportunity to apply your understanding of multiplication and division to solve problems involving items at a bike shop.

Directions: Complete the following tasks with a partner.						
	1.	Simplify 9×2 to determine the number of wheels on 9 bikes.				
	2.	Simplify 8×3 to determine the number of wheels on 8 tricycles.				
	3.	The owner of the shop can patch 6 tires in 48 minutes. Find the time it takes to patch 1 tire, using the equation $6 \times _ = 48$.				
	4.	Explain how multiplication and division can each be used to solve the problem in step 3.				
	5.	Use the equation $4 \times ? = 32$ to determine how many sets of spokes are needed for a bike that needs 32 new spokes if each set comes with 4 spokes.				
	6.	Use the equation $9 \times (5 + 2) = ?$ to find out how many streamers are needed for 5 bikes, plus 2 more bikes if 9 streamers will go on each bike.				
	7.	The shop ordered 15 boxes of seats, and each box has 6 seats. Write an equation, and use properties to solve for the number of seats the shop ordered.				
	8.	An employee worked 5 hours at the shop last week and was paid \$35. Solve $35 \div 5 = ?$ to determine how much the employee earned per hour.				
	9.	The shop is open 7 days a week for 8 hours per day. Use the equation 7×8 to find out how many hours per week they are open.				
	10.	Use the equation $6 \times _$ = 24 to determine how much profit the shop earned per bike seat if they sold a total of 6 bike seats for a total profit of \$24.				
	11.	Create a name for the bike shop, and design a creative logo with the name. Then determine the cost to have a sign made if the cost is \$8 per letter or number in the name.				