## Unit 6 Lesson 3 Cumulative Practice Problems

1. Here is an equation that represents a function: $72x+12y=60$.
* Select **all** the different equations that describe the same function:
	1. $120y+720x=600$
	2. $y=5−6x$
	3. $2y+12x=10$
	4. $y=5+6x$
	5. $x=\frac{5}{6}−\frac{y}{6}$
	6. $7x+2y=6$
	7. $x=\frac{5}{6}+\frac{y}{6}$
	8. Graph a system of linear equations with no solutions.
	9. Write an equation for each line you graph.
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* (From Unit 5, Lesson 14.)
1. Brown rice costs $2 per pound, and beans cost $1.60 per pound. Lin has $10 to spend on these items to make a large meal of beans and rice for a potluck dinner. Let $b$ be the number of pounds of beans Lin buys and $r$ be the number of pounds of rice she buys when she spends all her money on this meal.
	1. Write an equation relating the two variables.
	2. Rearrange the equation so $b$ is the independent variable.
	3. Rearrange the equation so $r$ is the independent variable.
2. Solve each equation and check your answer.
* $2x+4(3−2x)=\frac{3(2x+2)}{6}+4$
* $4z+5=-3z−8$
* $\frac{1}{2}−\frac{1}{8}q=\frac{q−1}{4}$
* (From Unit 4, Lesson 14.)



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