Ratios for Exploratory Challenge

Cut and place in labeled envelopes prior to instructional time.

Group 1	Group 2	Group 3	Group 4
A local frozen yogurt shop is known for its monster sundaes to be shared by a group. The ratios represent the number of toppings to the total cost of the toppings. Create a table, and then graph and explain if the quantities are proportional to each other.	The school library receives money for every book sold at the school's book fair. The ratios represent the number of books sold to the amount of money the library receives. Create a table, and then graph and explain if the quantities are proportional to each other.	Your uncle just bought a hybrid car and wants to take you and your siblings camping. The ratios represent the number of gallons of gas remaining to the number of hours of driving. Create a table, and then graph and explain if the quantities are proportional to each other.	For a science project, Eli decided to study colonies of mold. He observed a piece of bread that was molding. The ratios represent the number of days passed to the number of colonies of mold on the bread. Create a table, and then graph and explain if the quantities are proportional to each other.
4 to 0	1 to 5	8 to 0	1 to 1
6: 3	2 to 10	After 1 hour of driving, there are 6 gallons of gas left in the tank.	2 to 4
8: 6	The library received $15 for selling 3 books.	4: 4	3: 9
The total cost of a 10-topping sundae is $9.	4: 20	2 to 7	4: 16
12 to 12	5: 25	0: 8	Twenty-five colonies were found on the 5th day.

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Group 5	Group 6	Group 7	Group 8
For a science project, Eli decided to study colonies of mold. He observed a piece of bread that was molding. The ratios represent the number of days passed to the number of colonies of mold on the bread. Create a table, and then graph and explain if the quantities are proportional to each other.	Your uncle just bought a hybrid car and wants to take you and your siblings camping. The ratios represent the number of gallons of gas remaining to the number of hours of driving. Create a table, and then graph and explain if the quantities are proportional to each other.	The school library receives money for every book sold at the school's book fair. The ratios represent the number of books sold to the amount of money the library receives. Create a table, and then graph and explain if the quantities are proportional to each other.	A local frozen yogurt shop is known for its monster sundaes to be shared by a group. The ratios represent the number of toppings to the total cost of the toppings. Create a table, and then graph and explain if the quantities are proportional to each other.
1 to 1	8 to 0	1 to 5	4 to 0
2 to 4	After 1 hour of driving, there are 6 gallons of gas left in the tank.	2 to 10	6: 3
3: 9	4: 4	The library received $15 for selling 3 books.	8: 6
4: 16	2 to 7	4: 20	The total cost of a 10-topping sundae is $9.
Twenty-five colonies were found on the 5th day.	0 : 8	5: 25	12 to 12

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