## Unit 6 Lesson 16: Two Related Quantities, Part 1

### 1 Which One Would You Choose? (Warm up)

#### Student Task Statement

Which one would you choose? Be prepared to explain your reasoning.

* A 5-pound jug of honey for $15.35
* Three 1.5-pound jars of honey for $13.05



### 2 Painting the Set

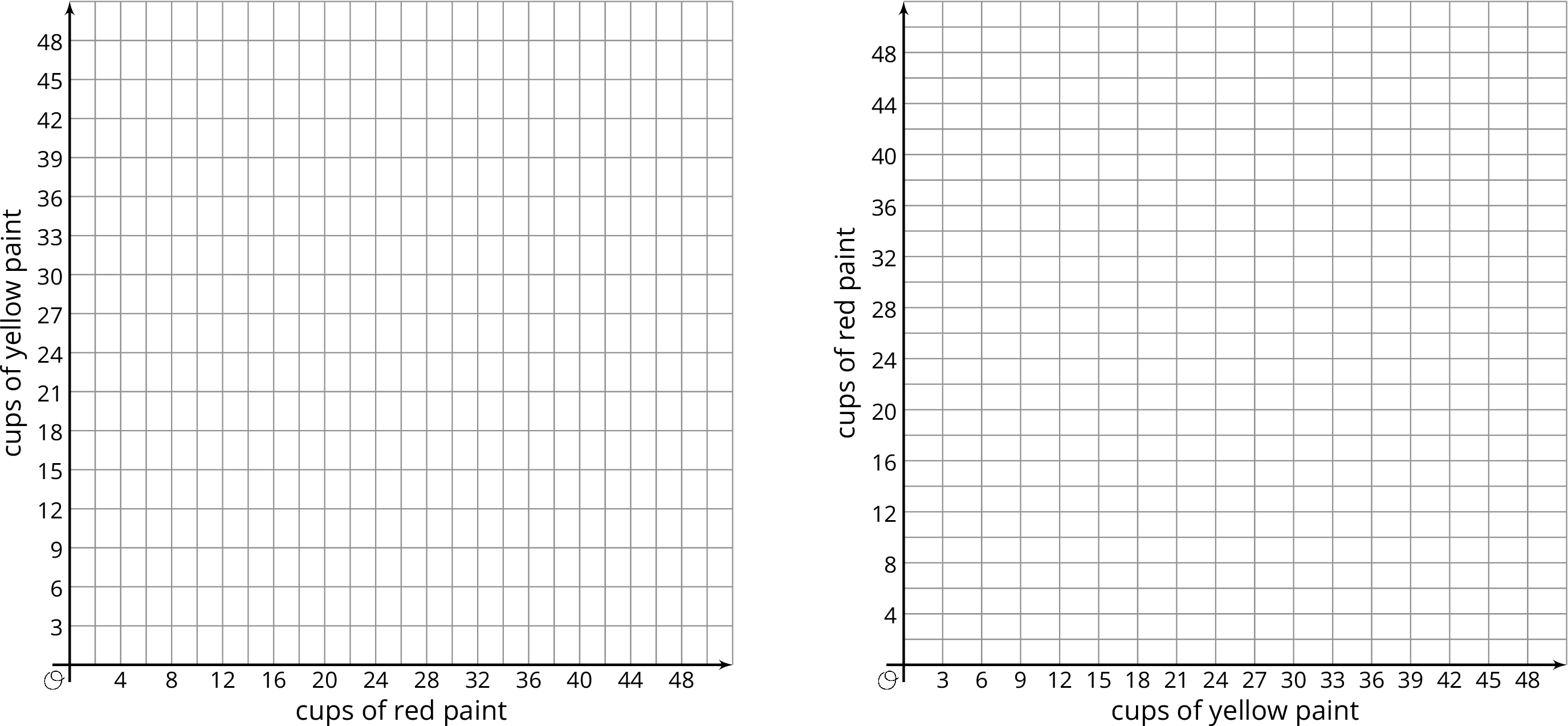
#### Student Task Statement

Lin needs to mix a specific shade of orange paint for the set of the school play. The color uses 3 parts yellow for every 2 parts red.

1. Complete the table to show different combinations of red and yellow paint that will make the shade of orange Lin needs.

| * cups of red paint | * cups of yellow paint | * total cups of paint |
| --- | --- | --- |
| * 2 | * 3 |  |
| * 6 |  |  |
|  |  | * 20 |
|  | * 18 |  |
| * 14 |  |  |
| * 16 |  |  |
|  |  | * 50 |
|  | * 42 |  |

1. Lin notices that the number of cups of red paint is always of the total number of cups. She writes the equation to describe the relationship. Which is the **independent variable**? Which is the **dependent variable**? Explain how you know.
2. Write an equation that describes the relationship between and where is the independent variable.
3. Write an equation that describes the relationship between and where is the independent variable.
4. Use the points in the table to create two graphs that show the relationship between and . Match each relationship to one of the equations you wrote.





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