

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## POW 8

A candle maker plans to make 30 orange candles. She mixes wax to create a specific shade of orange. The ratio of each color in her mixture is shown below:

- 2 parts red wax
- 5 parts yellow wax
- 3 parts white wax



### PART A

The candle maker needs 1 quart of orange wax for every 6 candles. How much yellow wax will the candle maker need to make all 30 candles?

### PART B

The candles turn out great! So, the candle maker raises her normal price and sells 5 candles for \$27. She usually charges \$14.25 for 3 candles. How many dollars, per candle, did the candle maker raise her price?

### PART C

The candle maker makes a total of 45 orange candles. This is 30% of all the candles she made this week. How many candles did the candle maker make this week?