



Solve each problem using a tape diagram.

**Answers**

- 1) A pizzeria owner sold 216 pizzas on Friday.  $\frac{2}{9}$  of all the pizzas sold were pepperoni.  $\frac{3}{7}$  of the rest sold were cheese. How many pizzas did he sell that weren't pepperoni or cheese?
- 2) On Ned's phone he has 330 songs.  $\frac{2}{5}$  of the songs are alternative.  $\frac{2}{3}$  of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?
- 3) A store started with 432 sodas. They sold  $\frac{5}{8}$  of them over the next month and they had to throw out  $\frac{2}{3}$  of the ones that were left because they were expired. How many sodas did they have at the end?
- 4) On Emily's phone  $\frac{3}{5}$  of the pictures were selfies. Of the other pictures on her phone  $\frac{1}{2}$  were of her cat. If she has 215 pictures on her phone, how many are not of her cat or selfies?
- 5) At Robin's Ice Cream Emporium they sold 285 ice cream cones in a day.  $\frac{2}{5}$  of them sold were chocolate.  $\frac{1}{3}$  of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

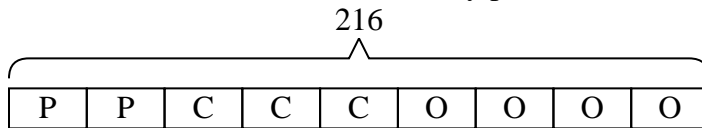
5. \_\_\_\_\_



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**Answers**

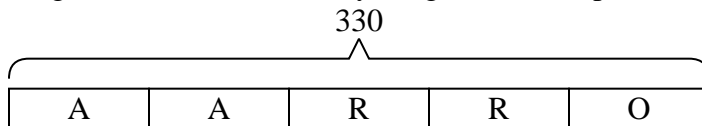
- 1) A pizzeria owner sold 216 pizzas on Friday.  $\frac{2}{9}$  of all the pizzas sold were pepperoni.  $\frac{3}{7}$  of the rest sold were cheese. How many pizzas did he sell that weren't pepperoni or cheese?



O = Other  
P = Pepperoni  
C = Cheese

1. **96**

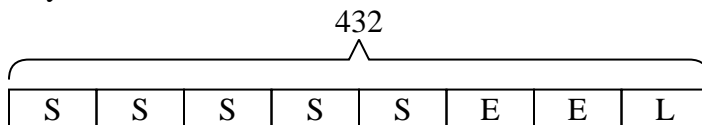
- 2) On Ned's phone he has 330 songs.  $\frac{2}{5}$  of the songs are alternative.  $\frac{2}{3}$  of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?



O = Other  
A = Alternative  
R = Rock

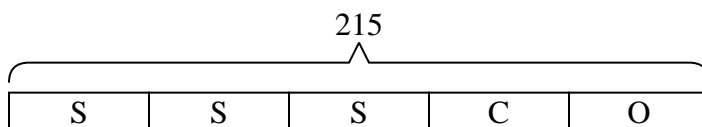
2. **66**3. **54**4. **43**5. **114**

- 3) A store started with 432 sodas. They sold  $\frac{5}{8}$  of them over the next month and they had to throw out  $\frac{2}{3}$  of the ones that were left because they were expired. How many sodas did they have at the end?



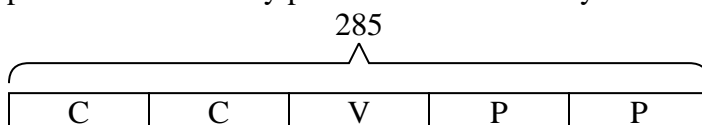
L = Left  
S = Sold  
E = Expired

- 4) On Emily's phone  $\frac{3}{5}$  of the pictures were selfies. Of the other pictures on her phone  $\frac{1}{2}$  were of her cat. If she has 215 pictures on her phone, how many are not of her cat or selfies?



O = Other  
S = Selfies  
C = Cat

- 5) At Robin's Ice Cream Emporium they sold 285 ice cream cones in a day.  $\frac{2}{5}$  of them sold were chocolate.  $\frac{1}{3}$  of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?



P = Pistachio  
C = Chocolate  
V = Vanilla