Fractions With Tape Diagram

Name:

Solve each problem using a tape diagram.

1) A store started with 990 sodas. They sold $^8/_{10}$ of them over the next month and they had to throw out $^1/_2$ of the ones that were left because they were expired. How many sodas did they have at the end?

1. _____

2) At Amy's Ice Cream Emporium they sold 288 ice cream cones in a day. $^1/_6$ of them sold were chocolate. $^3/_5$ of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?

2. _____

3. _____

4. _____

3) Vanessa went shopping on Black Friday. She spent $108 total. $^3/_6$ of what she spent was at Best Buy. She spent $^1/_3$ of what was left at Kohls and the rest she spent at Target. How much did she spend at Target?

5. _____

4) On Sarah's phone $^2/_6$ of the pictures were selfies. Of the other pictures on her phone $^2/_4$ were of her cat. If she has 336 pictures on her phone, how many are not of her cat or selfies?

5) On Henry's phone he has 497 songs. $^3/_7$ of the songs are alternative. $^2/_4$ of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?

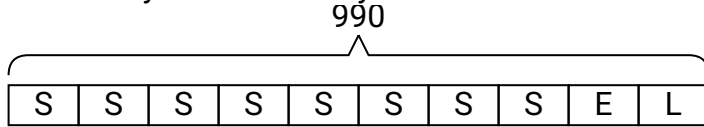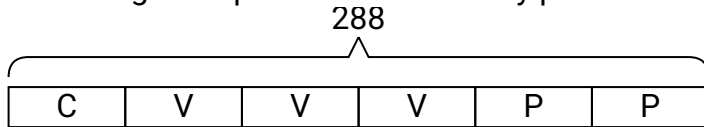1-5 | 80 | 60 | 40 | 20 | 0

Solve each problem using a tape diagram.

1) A store started with 990 sodas. They sold $^8/_{10}$ of them over the next month and they had to throw out $^1/_2$ of the ones that were left because they were expired. How many sodas did they have at the end?
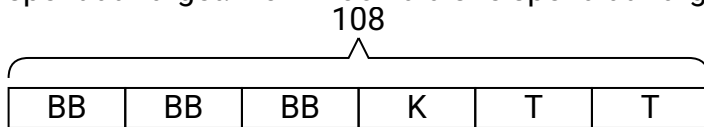
990

S	S	S	S	S	S	S	S	E	L

L = Left
S = Sold
E = Expired

2) At Amy's Ice Cream Emporium they sold 288 ice cream cones in a day. $^1/_6$ of them sold were chocolate. $^3/_5$ of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?
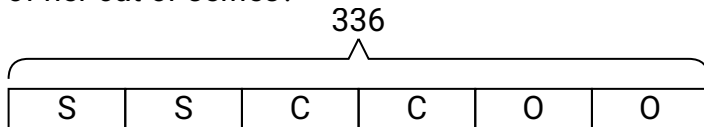
288

C	V	V	V	P	P

P = Pistachio
C = Chocolate
V = Vanilla

3) Vanessa went shopping on Black Friday. She spent $108 total. $^3/_6$ of what she spent was at Best Buy. She spent $^1/_3$ of what was left at Kohls and the rest she spent at Target. How much did she spend at Target?
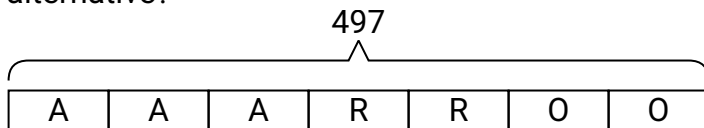
108

BB	BB	BB	K	T	T

T = Target
BB = Best Buy
K = Kohls

4) On Sarah's phone $^2/_6$ of the pictures were selfies. Of the other pictures on her phone $^2/_4$ were of her cat. If she has 336 pictures on her phone, how many are not of her cat or selfies?

336

S	S	C	C	O	O

O = Other
S = Selfies
C = Cat

5) On Henry's phone he has 497 songs. $^3/_7$ of the songs are alternative. $^2/_4$ of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?

497

A	A	A	R	R	O	O

O = Other
A = Alternative
R = Rock