Solve each problem using a tape diagram.

1) At Amy's Ice Cream Emporium they sold 539 ice cream cones in a day. $\frac{1}{7}$ of them sold were chocolate. $\frac{1}{6}$ of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?

2) A game store had 402 amiibo they were trying to sell. They sold $\frac{4}{6}$ at normal price. Then they sold $\frac{1}{2}$ of the ones that were left at a discount. How many amiibo did they have left after selling the discount ones?

3) Nancy went shopping on Black Friday. She spent $180 total. $\frac{4}{6}$ of what she spent was at Best Buy. She spent $\frac{1}{2}$ of what was left at Kohls and the rest she spent at Target. How much did she spend at Target?

4) A store started with 155 sodas. They sold $\frac{2}{5}$ of them over the next month and they had to throw out $\frac{1}{3}$ of the ones that were left because they were expired. How many sodas did they have at the end?

5) On Tom's phone he has 270 songs. $\frac{4}{9}$ of the songs are alternative. $\frac{3}{5}$ of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) At Amy's Ice Cream Emporium they sold 539 ice cream cones in a day. $^{1}/_{7}$ of them sold were chocolate. $^{1}/_{6}$ of the ones that weren't chocolate were vanilla. And the remaining were pistachio. How many pistachio cones did they sell?

539

C	V	P	P	P	P	P

P = Pistachio
C = Chocolate
V = Vanilla

2) A game store had 402 amiibo they were trying to sell. They sold $^{4}/_{6}$ at normal price. Then they sold $^{1}/_{2}$ of the ones that were left at a discount. How many amiibo did they have left after selling the discount ones?

402

NP	NP	NP	NP	D	L

L = Left
NP = normal
D = Discount

3) Nancy went shopping on Black Friday. She spent $180 total. $^{4}/_{6}$ of what she spent was at Best Buy. She spent $^{1}/_{2}$ of what was left at Kohls and the rest she spent at Target. How much did she spend at Target?

180

BB	BB	BB	BB	K	T

T = Target
BB = Best Buy
K = Kohls

4) A store started with 155 sodas. They sold $^{2}/_{5}$ of them over the next month and they had to throw out $^{1}/_{3}$ of the ones that were left because they were expired. How many sodas did they have at the end?

155

S	S	E	L	L

L = Left
S = Sold
E = Expired

5) On Tom's phone he has 270 songs. $^{4}/_{9}$ of the songs are alternative. $^{3}/_{5}$ of the rest of the songs were rock. How many songs are on his phone that aren't rock or alternative?

270

A	A	A	A	R	R	R	O	O

O = Other
A = Alternative
R = Rock

Answers

1. **385**
2. **67**
3. **30**
4. **62**
5. **60**

1-5	80	60	40	20	0