Ratios With Tape Diagram

Name:
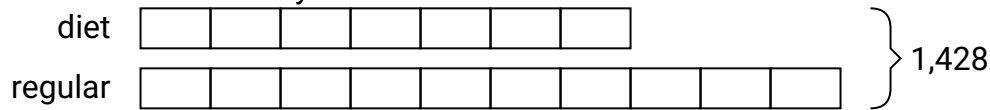
Solve each problem using a tape diagram.

Ex) A store had 1,428 sodas, both diet and regular. The ratio of diet sodas to regular sodas was 7:10. How many diet sodas were there?

diet ⎵⎵⎵⎵⎵⎵⎵

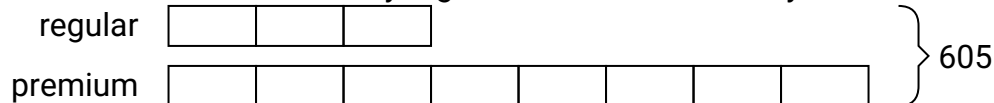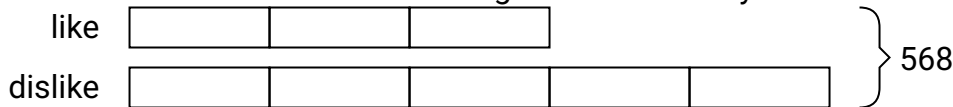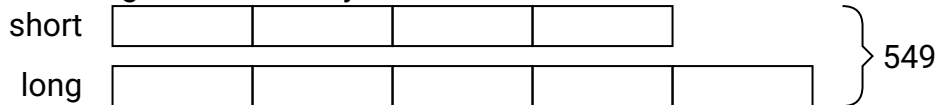regular ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵

} 1,428

Ex. _____ **588**

1) A cable company had 605 subscribers. The ratio of regular subscribers to premium subscribers was 3:8. How many regular subscribers did they have?
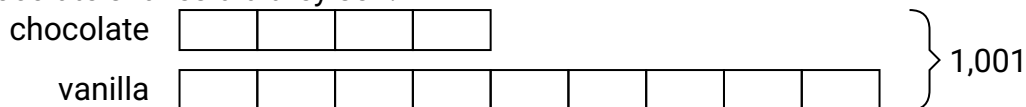
regular ⎵⎵⎵

premium ⎵⎵⎵⎵⎵⎵⎵⎵

} 605

1. _____

2) Ned was looking at his streaming music stats. The ratio of songs he liked to disliked was 3:5. If he listened to 568 songs total how many did he like?
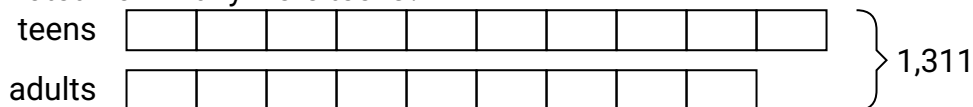
like ⎵⎵⎵

dislike ⎵⎵⎵⎵⎵

} 568

2. _____

3. _____

3) In August, Bianca's Clothing Store sold 549 shirts with the ratio of short sleeve to long sleeve being 4:5. How many short sleeve shirts were sold?

short ⎵⎵⎵⎵

long ⎵⎵⎵⎵⎵

} 549

4. _____

4) Mike's Ice Cream Hut had Chocolate or Vanilla shakes. On the 4th of July they sold 1,001 shakes total with the ratio of chocolate to vanilla being 4:9. How many chocolate shakes did they sell?
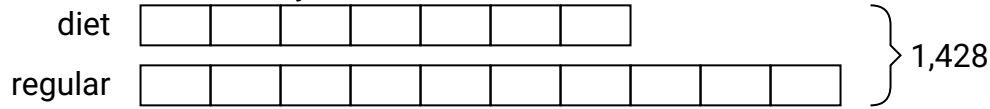
chocolate ⎵⎵⎵⎵

vanilla ⎵⎵⎵⎵⎵⎵⎵⎵⎵

} 1,001

5. _____

5) During an local election the ratio of teens to adults who voted was 10:9. If 1,311 people voted how many were teens?

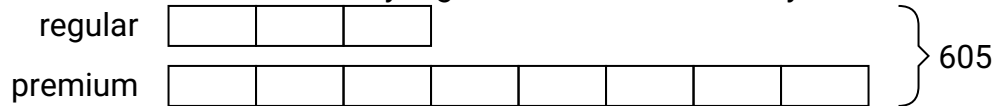teens ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵

adults ⎵⎵⎵⎵⎵⎵⎵⎵⎵

} 1,311

Solve each problem using a tape diagram.

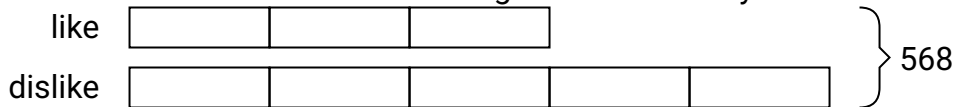**Ex)** A store had 1,428 sodas, both diet and regular. The ratio of diet sodas to regular sodas was 7:10. How many diet sodas were there?

diet ⌈ | | | | | | ⌉
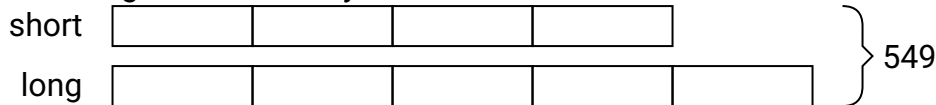
regular ⌈ | | | | | | | | | ⌉ } 1,428

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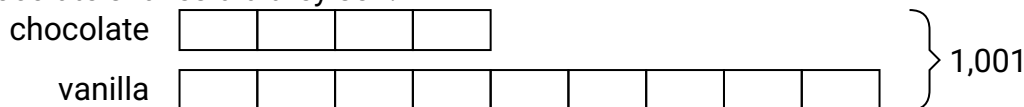
regular ⌈ | | ⌉

premium ⌈ | | | | | | | ⌉ } 605

2) Ned was looking at his streaming music stats. The ratio of songs he liked to disliked was 3:5. If he listened to 568 songs total how many did he like?
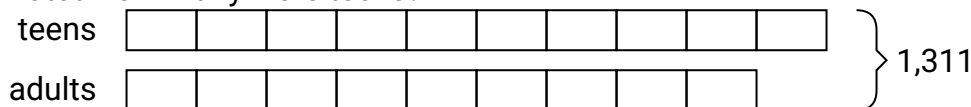
like ⌈ | | ⌉

dislike ⌈ | | | | ⌉ } 568

3) In August, Bianca's Clothing Store sold 549 shirts with the ratio of short sleeve to long sleeve being 4:5. How many short sleeve shirts were sold?

short ⌈ | | | ⌉

long ⌈ | | | | ⌉ } 549

4) Mike's Ice Cream Hut had Chocolate or Vanilla shakes. On the 4th of July they sold 1,001 shakes total with the ratio of chocolate to vanilla being 4:9. How many chocolate shakes did they sell?

chocolate ⌈ | | | ⌉

vanilla ⌈ | | | | | | | | ⌉ } 1,001

5) During an local election the ratio of teens to adults who voted was 10:9. If 1,311 people voted how many were teens?

teens ⌈ | | | | | | | | | ⌉

adults ⌈ | | | | | | | | ⌉ } 1,311

Ex. _____ **588**

1. _____ **165**

2. _____ **213**

3. _____ **244**

4. _____ **308**

5. _____ **690**