Name: _____

Ratio Tape Diagrams

Draw tape diagrams to answer the questions. Show your work.

1. To date, Juniper's volleyball team has a win–loss record of 4–1 over the last several seasons. If they've won 72 more games than they've lost, how many games have they lost?

answer: _____

2. Uncle Sutton's Cleaning Supplies stocks 6 brooms for every 5 vacuums. If he stocks 35 vacuums, how many more brooms than vacuums does he stock?

answer: _____

4. A theater has put on 275 shows in its history. If the shows have been in a ratio of 3 plays to 2 musicals, how many have been plays?

answer: _____

Ratio Tape Diagrams

5. Swift Academy voted between the mascots Frankie Phoenix and Deandre Dragon in a 5:4 ratio. If Frankie received 240 votes, how many students voted in all?

answer: _____

6. A forest has 3 deciduous trees for every evergreen. If there are 186 more deciduous trees than evergreens, how many deciduous trees are there in all?

answer: _____

8. The ratio of blue eyes to brown eyes in Raphael's classroom is 1:6. If there are 28 students in his class, how many more students are brown-eyed than blue-eyed?
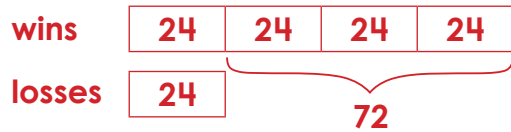
answer: _____

ANSWER KEY

Ratio Tape Diagrams

Draw tape diagrams to answer the questions. Show your work.

1. To date, Juniper's volleyball team has a win–loss record of 4–1 over the last several seasons. If they've won 72 more games than they've lost, how many games have they lost?

$72 ÷ 3 = 24$

wins	24	24	24	24

losses	24

72

answer: _____ **24 losses**

Ratio Tape Diagrams

5. Swift Academy voted between the mascots Frankie Phoenix and Deandre Dragon in a 5:4 ratio. If Frankie received 240 votes, how many students voted in all?

240

Frankie Phoenix

48	48	48	48	48

240 ÷ 5 = 48   **9 × 48 = 432**

Deandre

brown eyes

4	4	4	4	4	4

answer: _**20 more brown-eyed students**_