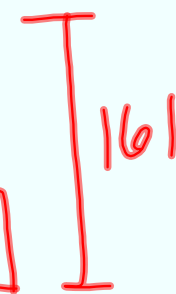
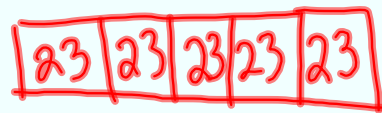
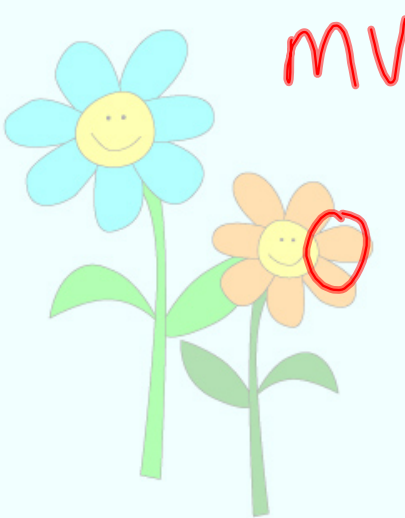


Complete exit ticket from lesson 5

When Carla looked out at the school parking lot, she noticed that for every 2 minivans, there were 5 other types of vehicles. If there are 161 vehicles in the parking lot, how many of them are not minivans?



$$\begin{array}{r}
 23 \\
 7 \overline{) 161} \\
 \underline{14} \\
 21 \\
 \underline{21} \\
 0
 \end{array}$$

$$\begin{array}{r}
 23 \\
 \times 5 \\
 \hline
 115
 \end{array}$$

Listen as I read the problem aloud and then we will highlight the important information:

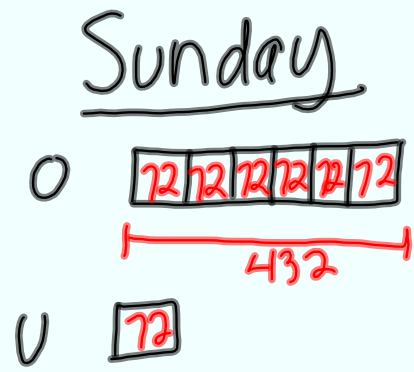
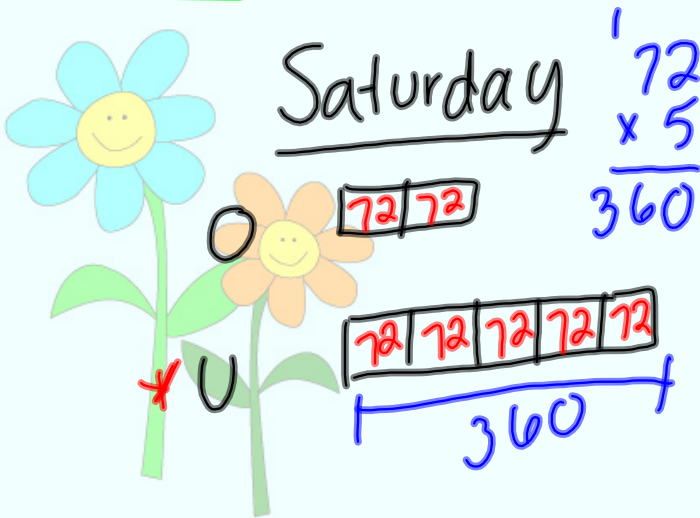
~~The Business Direct Hotel caters to people who travel for different types of business trips.~~ On **Saturday** night there is not a lot of business travel, so the ratio of the number of **occupied rooms** to the number of **unoccupied rooms** is **2:5**. However, on **Sunday** night the ratio of the number of **occupied rooms** to the number of **unoccupied rooms** is **6:1** due to the number of business people attending a large conference in the area. If the Business Direct Hotel has **432 occupied rooms** on **Sunday night**, how many unoccupied rooms does it have on **Saturday night**?



Let's create a tape diagram together for the problem:

~~The Business Direct Hotel caters to people who travel for different types of business trips.~~ On **Saturday** night there is not a lot of business travel, so the ratio of the number of **occupied rooms** to the number of **unoccupied rooms** is **2:5**. However, on **Sunday** night the ratio of the number of **occupied rooms** to the number of **unoccupied rooms** is **6:1** due to the number of business people attending a large conference in the area. If the Business Direct Hotel has **432 occupied rooms** on **Sunday night**, how many unoccupied rooms does it have on **Saturday night**?

$$\begin{array}{r}
 72 \\
 6 \overline{) 432} \\
 \underline{42} \\
 12 \\
 \underline{12} \\
 0
 \end{array}$$



Now we can solve the problem:

The Business Direct Hotel caters to people who travel for different types of business trips. On Saturday night there is not a lot of business travel, so the ratio of the number of occupied rooms to the number of unoccupied rooms is 2:5. However, on Sunday night the ratio of the number of occupied rooms to the number of unoccupied rooms is 6:1 due to the number of business people attending a large conference in the area. If the Business Direct Hotel has 432 occupied rooms on Sunday night, how many unoccupied rooms does it have on Saturday night?



Peter is trying to work out by completing sit-ups and push-ups in order to gain muscle mass. Originally, Peter was completing five sit-ups for every three push-ups, but then he injured his shoulder. After the injury, Peter completed the same amount of exercises as he did before his injury, but completed seven sit-ups for every one push-up. During a training session after his injury, Peter completed eight push-ups. How many push-ups was Peter completing before his injury?

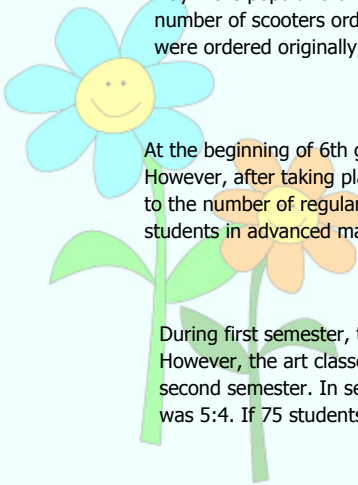
Tom and Rob are brothers who like to make bets about the outcomes of different contests between them. Before the last bet, the ratio of the amount of Tom's money to the amount of Rob's money was 4:7. Rob lost the latest competition, and now the ratio of the amount of Tom's money to the amount of Rob's money is 8:3. If Rob had \$280 before the last competition, how much does Rob have now that he lost the bet?

A sporting goods store ordered new bikes and scooters. For every 3 bikes ordered, 4 scooters were ordered. However, bikes were way more popular than scooters, so the store changed its next order. The new ratio of the number of bikes ordered to the number of scooters ordered was 5:2. If the same amount of sporting equipment was ordered in both orders and 64 scooters were ordered originally, how many bikes were ordered as part of the new order?

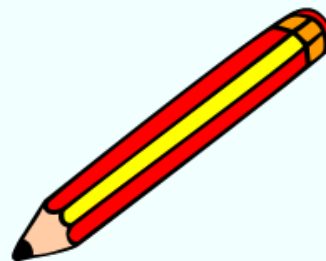
At the beginning of 6th grade, the ratio of the number of advanced math students to the number of regular math students was 3:8. However, after taking placement tests, students were moved around changing the ratio of the number of advanced math students to the number of regular math students to 4:7. How many students started in regular math and advanced math if there were 92 students in advanced math after the placement tests?

During first semester, the ratio of the number of students in art class to the number of students in gym class was 2:7. However, the art classes were really small, and the gym classes were large, so the principal changed students' classes for second semester. In second semester, the ratio of the number of students in art class to the number of students in gym class was 5:4. If 75 students were in art class second semester, how many were in art class and gym class first semester?

Jeanette wants to save money, but she has not been good at it in the past. The ratio of the amount of money in Jeanette's savings account to the amount of money in her checking account was 1:6. Because Jeanette is trying to get better at saving money, she moves some money from her checking account and into her savings account. Now, the ratio of the amount of money in her savings account to the amount of money in her checking account is 4:3. If Jeanette had \$936 in her checking account before moving money, how much money does Jeanette have in her checking account after moving money?



Your friend was absent from Math class today. What advice would you give your friend so they could complete tonight's homework?



Exit ticket!

Students surveyed boys and girls separately to determine which sport was enjoyed the most. After completing the boy survey, it was determined that for every 3 boys who enjoyed soccer, 5 boys enjoyed basketball. The girl survey had a ratio of the number of girls who enjoyed soccer to the number of girls who enjoyed basketball of 7:1. If the same number of boys and girls were surveyed and 90 boys enjoy soccer, how many girls enjoy each sport?

