

Understanding Percents

Liberal Arts Mathematics

Assignment Text

Answer the following problems from Section 6.1 of the textbook: 5, 6, 7, 21, 22, and 23.

For reference, the text of the problems are duplicated below.

In the following exercises, rewrite the percent in decimal form.

5. 18%

6. 9%

7. 71.2%

21. 36 people in a village of 150 want to install a new splash pad at the local playground. What percent of the village wants to install the new splash pad?

22. Mitena is enrolled in a movie appreciation course. There are 84 students (including Mitena) in the course. After having the students fill out a survey, the professor informs the students that 45.2% chose horror as their favorite movie genre. How many students in Mitena's class chose horror as their favorite movie genre? Round off to the nearest integer.

23. Jady's dorm has a "Rick and Morty night" every Wednesday during the semester. One Wednesday, 27 students from the dorm come to watch the TV show Rick and Morty. Jady knows this is 30% of the dorm's residents. How many students reside in the dorm?

Answer Key

5. 0.18

6. 0.09

7. 0.712

21. 24%

22. 38 students

23. 90 students

Student Feedback Templates

#5 should be 0.18

#6 should be 0.09

#7 should be 0.712

#21 should be 24% ($36 / 150 = 0.24$ or 24%)

#22 should be 38 students ($84 * 0.452 = 37.968$, round up to 38)

#23 should be 90 students ($27 / 0.3 = 90$)