

Finding Percentages

Ratios and Proportional Relationships

Concept To find a percent of a quantity as a rate per 100; solve problems, given a part and the percent.

Materials needed Each student will need:

- two dice
- a white board
- dry erase marker
- a hundreds chart
- a counter

Directions Each student will practice finding percentages of a number. The student will roll two dice. This will become their percentage. (For example, if the student rolls a 2 and a 6, they can choose to use either 26% or 62%.)

The student will then drop their counter onto the 100's chart. That number will become the number they are finding the percentage 'of'. (For example, the student might drop their counter on the number 82.)

The student will then use what they've learned about finding percentages to find the correct answer. Students will use their white board to problem solve and record answers.

For example:

26% of 82 - $X = .26$ $x = .26 (82)$ $x = 21.32$ 26% of 82 equals 21.32

Students will only be able to practice with percentages as high as 66% unless you use a teacher created die that will include greater numbers.

Differentiate To differentiate instruction for students struggling with finding percentages, the teacher could partner students up and make this a "Math With Someone" activity. Therefore, students would have a peer to 'check' their answers. Struggling students could roll the dice to find the percentage, but always use '100' as their number. They could also use one die to practice finding percentages.

To differentiate instruction for advanced students, teachers could use numbers from number charts that go higher than 100, or numbers up to 1000.

CCSS Sixth Grade - Ratios and Proportional Relationships (6.RP.A.3c) To



understand ratio concepts and use ratio reasoning to solve problems.

This math activity could also be used for Math with Someone and Writing in Math. For Math with Someone, students could have a partner check their answers, then switch roles. For Writing in Math, students could explain their thinking process on how to find percentages of numbers.

