

Math 301B

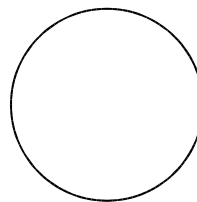
Section 8.4 - Percents: A Conceptual Approach

Using the part-to-whole comparison:

1. (Given the whole, find the part.)

Shade 75% of the circle at the right:

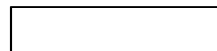
Think - 75% of the whole is $\frac{3}{4}$ of the whole.



2. (Given the part, find the whole.)

The rectangle at the right is 60% of the whole.

Draw the whole.



3. (Given the whole and the part, find the percent.)

What percent of the stars are shaded?

What percent of the stars are unshaded?



Draw a picture to solve problems 4-11:

- Of the 24 students in the classroom, 75% were wearing tennis shoes. How many students were wearing tennis shoes?
- Of the 420 algebra students last quarter, 40% had Professor Ahlgren. How many students had Professor Ahlgren?
- Three students did not bring their books to class. This represented 25% of the class. How many students are in the class?
- Twelve inches is $33\frac{1}{3}\%$ of what measuring unit?
- There are 20 books on a shelf. Four of these books are math books? What percent of the books are not math books?
- Jeans regularly costing \$45 are on sale for 25% off. What is the sale price of the jeans?
- Janelle bought her desk at a $12\frac{1}{2}\%$ discount. She paid \$140. How much money did she save? What was the original price of the desk?
- The value of a home increased from \$150,000 to \$180,000 last year. What is the percent increase?
- What is the percent decrease if the value of the home decreases from \$180,000 to \$150,000 next year?
- A box of crackers advertised that the reduced fat variety has 30% less fat per serving than the regular variety. If the reduced fat crackers have 3.5 grams of fat per serving, how many grams of fat are in a serving of regular crackers?