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# Practice 12



## Reminders

- Shooting percentages in basketball are calculated by dividing the number of attempted shots into the number of shots made.
- Passing percentages in football are calculated by dividing the number of attempted passes into the number of completed passes.
- Winning percentages are calculated by dividing the total number of games into the number of games won.
- You need to add a decimal point and 2 or 3 zeroes before dividing.



**Directions:** Calculate the percentages in each problem below. The first one is done for you.

1. Your best basketball player attempted 20 shots and made 15. Calculate his shooting percentage.

$$\begin{array}{r} .75 = 75\% \\ 20 \overline{)15.00} \\ \underline{14.0} \\ 1.00 \\ \underline{100} \end{array}$$

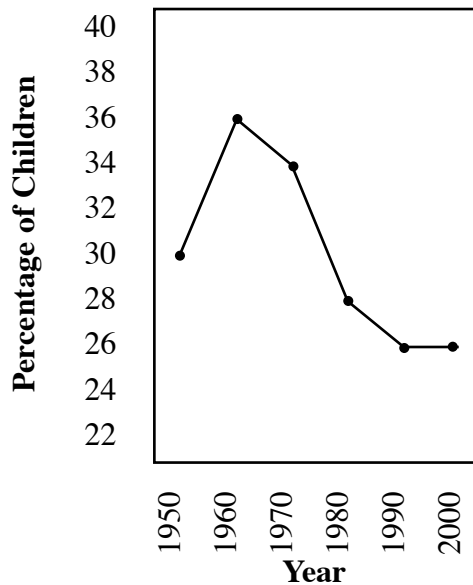
2. A shooting guard on your school basketball team attempted 25 shots and made 18. What was the player's shooting percentage? \_\_\_\_\_
3. The local school quarterback attempted 12 passes and completed 9 passes. What was the quarterback's passing percentage? \_\_\_\_\_
4. The local school's soccer team played 10 games and won 6 games. What was the team's winning percentage? \_\_\_\_\_
5. The local school's basketball team had a 24-game season and won 18 games. What was the team's winning percentage? \_\_\_\_\_
6. The local school's football team played 10 games and won 8 games. What was its winning percentage? \_\_\_\_\_
7. Joe is the quarterback of the intramural team. He attempts 25 passes and completes 16 passes. What is his passing percentage? \_\_\_\_\_
8. The girls' softball team played 15 games and won 10 games. What is the team's winning percentage? \_\_\_\_\_
9. The center on your basketball team attempted 40 shots and made 28 shots. What was the center's shooting percentage? \_\_\_\_\_
10. The school baseball team played 28 games and won 23 games. What was its winning percentage?  
\_\_\_\_\_

# Practice 21



This single line graph illustrates the percentage of children in the general population from 1950 until 2000. Study the graph and use the information to answer the questions below.

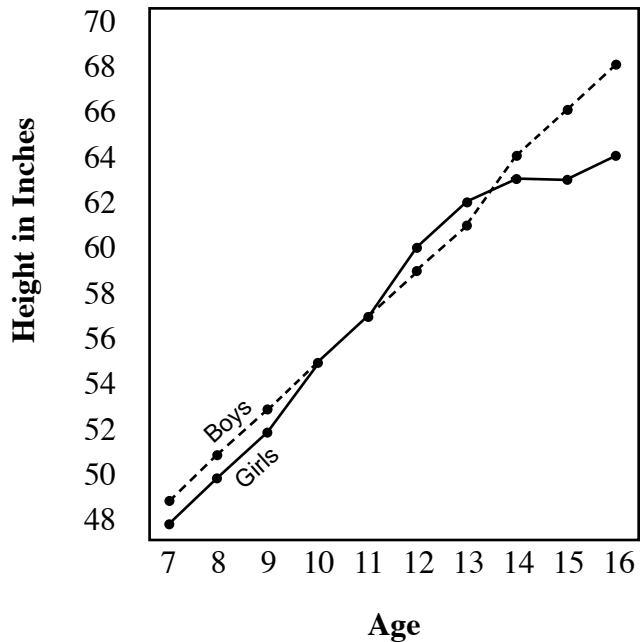
**Population of Children in the U.S.**



- In which year did children comprise 36% of the population? \_\_\_\_\_
- In which years were only 26% of the population children? \_\_\_\_\_
- What year saw the highest percentage of children? \_\_\_\_\_
- In which ten-year period did the number of children as a percentage of the population rise? \_\_\_\_\_
- In which years are children just about one-fourth of the population? \_\_\_\_\_
- In which ten-year period did the greatest drop occur? \_\_\_\_\_
- In which ten-year period were children more than one third of the population?  
\_\_\_\_\_
- Does the most recent trend seem to be rising, falling or staying the same? \_\_\_\_\_

This double line graph shows the average heights of boys and girls by age from 7 through 16. Study the graph and answer the questions below.

**Average Heights of Children**



- At which two ages do boys and girls average the same heights? \_\_\_\_\_
- At which two ages are girls on average taller than boys? \_\_\_\_\_
- At what age do boys average 4 inches taller than girls? \_\_\_\_\_
- At what three ages do boys and girls grow at about the same amount before the girls catch up to boys? \_\_\_\_\_
- Are sixth grade girls usually taller or shorter than boys? \_\_\_\_\_
- At what age do boys catch up and pass girls?  
\_\_\_\_\_