

Finding Percents of Numbers

Time for Hoops



Trish plays basketball in her town's basketball league. She learned that percents play a big part in understanding the game. Solve the following problems.

1 This year, Trish played in all of her team's games. The number of games Trish played in relation to the number of games the team played can be expressed as what percent?

Last year, Trish injured her ankle and missed 25% of her team's games. If the team played 28 games, how many games did Trish miss because of her injury?

2 Trish's team, the Hornets, played 24 games this season and won 62.5% of them. How many games did the Hornets win?

The first-place team, the Vipers, won 75% of the 24 games they played. How many games did the Vipers win?

3 Last season, Trish scored 70 points. This year she scored 160% more. How many points did Trish score this season?

4 Trish attempted 32 free throws and made 75% of them. How many free throws did she make?

The team attempted a total of 280 free throws and made 72.5% of them. How many free throws did the team make?

5 375 people attended the championship game between the Hornets and the Vipers. 48% of those attending the game bought advance tickets. How many people bought advance tickets?

6 During the season, Trish attempted 110 field goals and made 40% of them. How many field goals did Trish make?

Her teammate Ellen attempted 120 field goals and made 37.5% of them. How many field goals did Ellen make?

Sienna attempted 40 field goals and made 50% of them. How many field goals did Sienna make?

In your opinion, which girl is the best scorer? Explain.

Play Ball!

Finding
the Percent

Manuel enjoys playing baseball in his town's summer baseball league. Like most baseball players, he understands how important math is to the game. Solve the following percent problems related to baseball. If necessary, round your answers to the nearest percent.



1 Manuel is a pitcher for his team, the Warriors. In his last game he threw 80 pitches. Twenty-five were strikes. The others were called balls. What percent of the pitches were strikes?

Of the 40 batters he faced, he walked 5. What percent of the batters did he walk?

2 To help meet its expenses, the league sponsors a Donation Drive every June. This year, Manuel and his teammates collected \$987 at the supermarket, \$255 from a car wash (after the expenses were paid), and \$326 from a bake sale. What percent of the total money collected did the Warriors collect from the supermarket?

What percent of the total money collected did they collect from the car wash?

What percent of the total money collected did they collect from the bake sale?

3 At the end of every season, 36 players are chosen to play in an all-star game. If there are 10 teams with 18 players on each team, what percent of the players are chosen to play in the all-star game?

Of the 36 players who were selected to play in the all-star game this year, 30 actually played in the game. What percent of the all-star players actually played in the game?

4 Will and Paul are twins who play on the same team. They are excellent ballplayers. Will got at least one hit in 12 out of 20 games in which he played. Paul got at least one hit in 10 out of 20 games he played. What percent of the games in which Will played did he get at least one hit?

What percent of the games in which Paul played did he get at least one hit?

Can you say that at least one of the twins got a hit in each of the 20 games they played? Explain your answer on the back of this page.