

Name _____ Date _____

Part 5 Groups and More Groups
Use the *Multiplication Strategies Menu* in the *Student Guide Reference* section.

- Bessie Coleman School is holding a fund-raiser. The money earned will go towards buying new books for the school library. Jacob is in charge of pouring lemonade at the fund-raiser. He has 19 packages of paper cups. Each package has 20 cups. About how many cups does he have?
- Lee Yah is in charge of selling hot dogs. She has 36 packages of hot dog buns at the start of the day. Each package has 8 buns. How many hot dogs can she sell?
- Jacob is selling raffle tickets. One raffle ticket sells for \$4.
 - So far he has collected \$160. How many raffle tickets did he sell?
 - His goal is to collect \$400. How many more raffle tickets must he sell to reach his goal?
- Ten people can sit at one table for Bingo. There are 12 tables for Bingo. How many people can play Bingo at one time?
- At the fund-raiser, a “meal deal” that includes a hot dog, drink, and chips costs \$3. There are 96 students in the eighth grade at Bessie Coleman School. If each eighth grader buys one meal deal, how much money will the eighth-grade class pay in all for their food?
- Students playing Knock Down the Bottles get 2 balls for a quarter. How many players must pay for the booth to earn \$10? How many balls will have been tossed?

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Part 6 Multiplying by Tens

- Solve the following problems.
 - $6 \times 70 =$ _____
 - $8 \times 400 =$ _____
 - $800 \times 6 =$ _____
 - $7000 \times 4 =$ _____
 - $800 \times 80 =$ _____
 - $60 \times 40 =$ _____
- Find what n must be to make each number sentence true.
 - $60 \times n = 360$
 - $n \times 5 = 350$
 - $n \times 900 = 5400$

Part 7 More Multiplication

- Solve the following problems using paper and pencil or mental math. Use the *Multiplication Strategies Menu* in the *Student Guide Reference* section.

A. $\begin{array}{r} 14 \\ \times 7 \\ \hline \end{array}$	B. $\begin{array}{r} 700 \\ \times 40 \\ \hline \end{array}$	C. $\begin{array}{r} 42 \\ \times 3 \\ \hline \end{array}$
D. $\begin{array}{r} 35 \\ \times 8 \\ \hline \end{array}$	E. $\begin{array}{r} 48 \\ \times 6 \\ \hline \end{array}$	F. $\begin{array}{r} 600 \\ \times 300 \\ \hline \end{array}$
- Use convenient numbers to estimate the following products.

A. $50 \times 61 =$	B. $89 \times 40 =$	C. $397 \times 30 =$
D. $78 \times 32 =$	E. $186 \times 63 =$	F. $621 \times 88 =$

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Part 5. Groups and More Groups

Questions 1–6 (TG p. 3)

- Estimates will vary. One possible estimate: 400 cups
- 288 hotdogs
- A. 40 raffle tickets
B. 60 more raffle tickets
- 120 people
- \$288
- 40 players; 80 balls

Part 6. Multiplying by Tens

Questions 1–2 (TG p. 4)

- A. 420
B. 3200
C. 4800
D. 28,000
E. 64,000
F. 2400
- A. 6
B. 70
C. 6

Part 7. More Multiplication

Questions 1–2 (TG p. 4)

- A. 98
B. 28,000
C. 126
D. 280
E. 288
F. 180,000
- A. One possible estimate: $50 \times 60 = 3000$
B. One possible estimate: $90 \times 40 = 3600$
C. One possible estimate: $400 \times 30 = 12,000$
D. One possible estimate: $80 \times 30 = 2400$
E. One possible estimate: $200 \times 60 = 12,000$
F. One possible estimate: $600 \times 90 = 54,000$

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Part 8. Using Estimation

Questions 1–7 (TG p. 5)

1. New York Yankees 3,719,358
 Philadelphia Phillies 3,600,693
 Chicago Cubs 3,168,859
 Minnesota Twins 2,416,237
 Atlanta Braves 2,373,631
2. Possible response: About 2 million more people attended New York Yankees games:
 $4,000,000 - 2,000,000 = 2,000,000$
3. About 400,000 more attended Philadelphia Phillies: $3,600,000 - 3,200,000$.
4. Chicago Cubs has about double the attendance of Pittsburgh Pirates: 3,200,000 is about double 1,600,000.
5. About 300,000 more people attended the Minnesota Twins games:
 $2,400,000 - 2,100,000$.
6. About 25 million people enjoyed baseball in these ball parks: estimate to the closet million.
7. Methods will vary.
 - A. Estimate is 200; exact answer is 212.
 - B. Estimate is 80; exact answer is 76.
 - C. Estimate is 240; exact answer is 231.
 - D. Estimate is 300 or 350; exact answer is 325.

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Part 8 Using Estimation

Use the information in the table to estimate the answers to the questions below. Record your work on a separate sheet of paper.

Ballpark Attendance at Games in 2011

Baseball Team	Number of Attendance	Baseball Team	Number of Attendance
Arizona Diamondbacks	2,128,765	Minnesota Twins	2,416,237
Atlanta Braves	2,373,631	New York Yankees	3,719,358
Baltimore Orioles	1,907,163	Philadelphia Phillies	3,600,693
Chicago Cubs	3,168,859	Pittsburgh Pirates	1,577,853
Chicago White Sox	2,284,163	Seattle Mariners	2,195,533

1. List the five teams with the greatest attendance. Order the teams and their attendance from largest to smallest.
2. About how many more people attended New York Yankees games than Pittsburgh Pirates games?
3. About how many more people attended Philadelphia Phillies games than Chicago Cubs games?
4. Which team has about double the attendance of the Pittsburgh Pirates?
5. About how many more people attended Minnesota Twins games than Arizona Diamondbacks games?
6. About how many fans enjoyed baseball in these ten ballparks?
7. Estimate these products. Then find an exact answer using paper and pencil or mental math. Use the *Multiplication Strategies Menu* in the *Student Guide Reference* section.

A. $\begin{array}{r} 53 \\ \times 4 \end{array}$	B. $\begin{array}{r} 38 \\ \times 2 \end{array}$	C. $\begin{array}{r} 77 \\ \times 3 \end{array}$	D. $\begin{array}{r} 65 \\ \times 5 \end{array}$
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