

Packed House Place Value

Football, hockey, basketball and soccer seasons are all in full swing, and the stands are packed! Use place value to read, write, compare and round big crowd numbers. Every team on this sheet is made up.

Name _____

Date _____

NUMBER TOOLKIT

Place value

where a digit sits
tells its value

Expanded form

a number written as
the sum of its parts

Word form

a number written
with words

Rounding

look one place right:
5 or more rounds up

Compare

< less > greater
= equal to

TODAY'S CROWD

68,452

FANS IN THE STANDS

PLACE VALUE CHART · 68,452 FANS

TEN THOUSANDS

6

60,000

THOUSANDS

8

8,000

HUNDREDS

4

400

TENS

5

50

ONES

2

2

$68,452 = 60,000 + 8,000 + 400 + 50 + 2$ · sixty-eight thousand, four hundred fifty-two

ROOKIE

- 1 The Maple City Moose had **47,385** fans at their football game. What is the value of the digit **7** in 47,385?

WORK SPACE

ROOKIE

- 2 The Bayport Pelicans sold **62,904** tickets for their home opener. How do you write 62,904 in **expanded form**?

WORK SPACE

STARTER

- 3 The announcer said, "**Fifty-three thousand, six hundred eight** fans are here today!" How do you write this number in **standard form**?

WORK SPACE

_____ fans

STARTER

- 4 The Frost Bay Penguins had **18,476** fans at their hockey game. What is 18,476 rounded to the **nearest thousand**?

WORK SPACE

_____ fans

PRO

- 5 The Sun Valley Hawks had **19,355** fans at their basketball game. What is 19,355 rounded to the **nearest hundred**?

WORK SPACE

_____ fans

PRO

- 6 The Ridgeport Rams had **71,650** fans at their football game. What is 71,650 rounded to the **nearest ten thousand**?

WORK SPACE

_____ fans

ALL-STAR

- 7 Two crowds are shown below. Which symbol, <, > or =, makes the comparison true?

64,519 **64,591**

WORK SPACE

CHALLENGE ★

- 8 Challenge: A soccer stadium had **66,214** fans. The value of the first 6 is how many times the value of the second 6?

WORK SPACE

_____ times

A Saturday Crowd Report

Attendance at four made-up college football games last Saturday.

TEAM (HOME)	FANS
Cedar Valley Owls	61,482
Harbor City Gulls	58,907
Pine Ridge Bears	61,248
Lakeside Comets	47,315

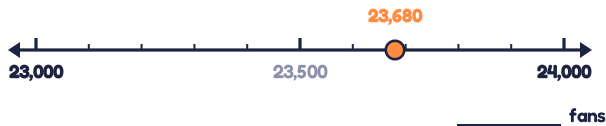
Made-up attendance numbers.
Read each number carefully: two are close!

- Which team had the **greatest** attendance on Saturday?
_____ fans
- The Harbor City Gulls had **58,907** fans. What is 58,907 rounded to the **nearest thousand**?
_____ fans
- The Pine Ridge Bears had **61,248** fans and the Lakeside Comets had **47,315**. How many fans went to the two games **in all**?
_____ fans
- The Owls had **61,482** fans and the Comets had **47,315**. How many **more** fans did the Owls have?
_____ fans

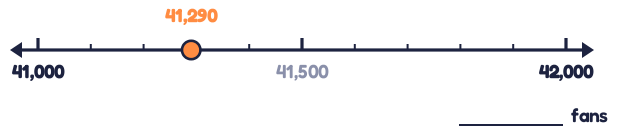
B Round It on the Number Line

Find the dot. Is it closer to the number on the left or on the right? A number exactly halfway rounds up.

- The Riverside Otters had **23,680** fans at their hockey game, as shown on the number line. What is 23,680 rounded to the **nearest thousand**?



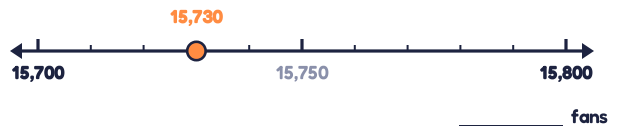
- The Granite Falls Goats had **41,290** fans at their football game, as shown on the number line. What is 41,290 rounded to the **nearest thousand**?



- The Eastport Eagles had **8,450** fans at their basketball game, as shown on the number line. What is 8,450 rounded to the **nearest hundred**?



- The Clearwater Cranes had **15,730** fans at their soccer game, as shown on the number line. What is 15,730 rounded to the **nearest hundred**?



C Ticket Office Problems

Add, subtract and estimate with big crowd numbers. Line up the places before you start.

- Lakeview Stadium has **72,000** seats. On Sunday, **65,348** fans came to the football game. How many seats were **empty**?

WORK SPACE

Grid for working space.

_____ seats

- The Frost Bay Penguins had **18,206** fans on Friday and **18,519** fans on Saturday. How many fans came to the two hockey games **in all**?

WORK SPACE

Grid for working space.

_____ fans

- Two soccer games had **31,820** fans and **27,415** fans. Round each number to the **nearest thousand**. About how many fans came in all?

WORK SPACE

Grid for working space.

about _____ fans

- Challenge: Use each digit **7, 0, 4, 9, 2** one time. What is the **greatest** five-digit crowd number you can make?

WORK SPACE

Grid for working space.

_____ fans

Answer Key (for teachers & parents)

Answers for **Packed House Place Value**, with the work shown. Print pages 1 and 2 for students and keep this page for checking. For page 1 #2, also accept 6 ten thousands + 2 thousands + 9 hundreds + 4 ones.

Page 1 Problems

1. Answer: 7,000

The 7 is in the thousands place: 7 thousands.

2. Answer: 60,000 + 2,000 + 900 + 4

6 ten thousands, 2 thousands, 0 hundreds, 0 tens, 4 ones.

3. Answer: 53,608 fans

53 thousands, 6 hundreds, 0 tens, 8 ones.

4. Answer: 18,000 fans

Look at the hundreds digit, 4. Less than 5, so round down.

5. Answer: 19,400 fans

Look at the tens digit, 5. That is 5 or more, so round up.

6. Answer: 70,000 fans

Look at the thousands digit, 1. Less than 5, so round down.

7. Answer: 64,519 < 64,591

Same ten thousands, thousands and hundreds. In the tens, 1 ten is less than 9 tens.

8. Answer: 10 times

The first 6 is worth 60,000. The second 6 is worth 6,000. $6,000 \times 10 = 60,000$.

A · Saturday Crowd Report

1. Answer: Cedar Valley Owls

The Owls and Bears both have 61 thousand. In the hundreds, 4 is more than 2.

2. Answer: 59,000 fans

The hundreds digit is 9, so round up to 59,000.

3. Answer: 108,563 fans

Add: $61,248 + 47,315$.

4. Answer: 14,167 fans

Subtract: $61,482 - 47,315$.

Quick score

Page 1 problems _____ / 8

A · Crowd Report _____ / 4

B · Number Line _____ / 4

C · Ticket Office _____ / 4

Total _____ / 20

Skills practiced

Place value

Expanded form

Word form

Comparing numbers

Rounding

Multi-digit addition & subtraction

Estimation

Teaching tip: Have students **underline the place** they are rounding to and circle the digit just to its right. In B3, 8,450 sits exactly halfway, so it rounds up to 8,500. In page 1 #7 and A1, the numbers match until a middle digit, so compare place by place from the left.

B · Round It on the Number Line

1. Answer: 24,000 fans

The dot is past the halfway mark, 23,500.

2. Answer: 41,000 fans

The dot is before the halfway mark, 41,500.

3. Answer: 8,500 fans

The dot is exactly halfway, so round up.

4. Answer: 15,700 fans

The dot is before the halfway mark, 15,750.

C · Ticket Office Problems

1. Answer: 6,652 seats

Subtract: $72,000 - 65,348$. Check: $65,348 + 6,652 = 72,000$.

2. Answer: 36,725 fans

Add: $18,206 + 18,519$.

3. Answer: about 59,000 fans

31,820 rounds to 32,000 and 27,415 rounds to 27,000. Add the rounded numbers.

4. Answer: 97,420 fans

Put the biggest digit in the biggest place: 9, 7, 4, 2, 0.