

Opening Night Crowds & Clock

It's the first game of the basketball season, and the arenas are packed! Round the crowds, find the value of each digit, and compare which arena had the most fans.

Name _____

Date _____

ROUNDING TOOLKIT

Nearest 10

look at the ones digit

Nearest 100

look at the tens digit

Nearest 1,000

look at the hundreds digit

5 or more

round up

4 or less

round down

7:10

TP-OFF



Game night!

CROWDS + CLOCKS

OPENING NIGHT CROWDS • FANS AT EACH HOME ARENA

HOME TEAM

FANS

NEAREST 10

NEAREST 100

NEAREST 1,000

Granite Falls Foxes

18,476

Bayport Pelicans

19,503

Redwood Rangers

17,958

Silver Lake Lynx

18,467

Fill in the rounding boxes as you work. All teams are made up.

ROOKIE

- 1 Round the **Granite Falls Foxes** crowd to the nearest **10**, the nearest **100** and the nearest **1,000**.

WORK SPACE

nearest 10 nearest 100 nearest 1,000

ROOKIE

- 2 Round the **Bayport Pelicans** crowd to the nearest **100** and to the nearest **1,000**.

WORK SPACE

nearest 100 nearest 1,000

STARTER

- 3 Round the **Redwood Rangers** crowd to the nearest **10** and to the nearest **100**.

WORK SPACE

nearest 10 nearest 100

STARTER

- 4 In the Foxes crowd, **18,476**, what is the value of the digit **4**? What is the value of the digit **8**?

WORK SPACE

4: _____ 8: _____
digit 4 digit 8

PRO

- 5 Write the **Silver Lake Lynx** crowd, 18,467, in **expanded form**.

Example: $352 = 300 + 50 + 2$

PRO

- 6 The Foxes had **18,476** fans and the Lynx had **18,467**.
a) Which crowd was bigger? b) How many more fans?

WORK SPACE

_____ fans
team how many more

ALL-STAR

- 7 List all **four** crowds from **least to greatest**.

WORK SPACE

CHALLENGE ★

- 8 Round each of the four crowds to the nearest **1,000**. How many of them round to **18,000**?

WORK SPACE

_____ crowds

A Game Night Schedule

Foxes vs. Pelicans, opening night. Use the times on this schedule.

Doors open	5:45 PM	1 How long is it from doors open to tip-off ?	_____ h _____ min
Tip-off	7:10 PM	2 How long is it from tip-off to the final buzzer ?	_____ h _____ min
Halftime starts	8:02 PM	3 How many minutes is it from tip-off to when halftime starts ?	_____ min
Halftime ends	8:17 PM	4 How many minutes is it from when halftime ends to the final buzzer ?	_____ min
Final buzzer	9:24 PM	WORK SPACE	

B Watch the Game Clock

The game clock counts down, and it stops a lot, so a game takes longer than the clock shows.

1 The clock counts down from **12:00** each quarter. It shows **4:35** left in the 1st quarter. How much time has been played in that quarter?

WORK SPACE

_____ min _____ sec

2 A game has **4 quarters** of 12 minutes. When the **3rd quarter** ends, how many minutes of game clock have been played, and how many are left?

WORK SPACE

played _____ · left _____

3 The clock shows **6:20** left in the **2nd quarter**. How much game clock has been played in the **whole game** so far?

WORK SPACE

_____ min _____ sec

4 The game is tied after 4 quarters, so they play one **5-minute overtime**. How many minutes of game clock is the whole game now?

WORK SPACE

_____ min

C Crowds + Clock Mix

Multi-step thinking: use more than one step, and show your work.

1 The Pelicans' arena has **19,800** seats. **19,503** fans came on opening night. How many seats were **empty**?

WORK SPACE

_____ seats

2 The Foxes had **18,476** fans on opening night. At the next game, **640** more fans came. a) How many fans came? b) Round that number to the nearest **100**.

WORK SPACE

_____ · _____

3 A game tips off at **7:10 PM** and lasts **2 hours 14 minutes**. The team bus leaves **25 minutes** after the final buzzer. What time does the bus leave?

WORK SPACE

_____ PM

4 Doors always open **1 hour 25 minutes** before tip-off. The next game tips off at **6:40 PM**. What time do the doors open?

WORK SPACE

_____ PM

Answer Key (for teachers & parents)

Opening Night Crowds & Clock: answers and short steps for every problem. To round, look at the digit just to the right of the place: 5 or more rounds up. All teams are made up.

Page 1 Problems

- Answer: 18,480 · 18,500 · 18,000**
Ones 6: round up to 18,480. Tens 7: up to 18,500.
Hundreds 4: round down to 18,000.
- Answer: 19,500 · 20,000**
Tens digit 0: round down to 19,500.
Hundreds digit 5: round up to 20,000.
- Answer: 17,960 · 18,000**
Ones digit 8: round up to 17,960.
Tens digit 5: round up to 18,000.
- Answer: 400 · 8,000**
The 4 is in the hundreds place.
The 8 is in the thousands place.
- Answer: 10,000 + 8,000 + 400 + 60 + 7**
One part for each digit of 18,467.
- Answer: the Foxes, by 9 fans**
Same up to the tens: 7 tens is more than 6 tens.
 $18,476 - 18,467 = 9$.
- Answer: 17,958 · 18,467 · 18,476 · 19,503**
Compare thousands first, then hundreds, then tens.
- Answer: 3 crowds**
Foxes, Rangers and Lynx all round to 18,000.
The Pelicans round to 20,000.

Quick score

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B · Watch the Game Clock	_____ / 4
C · Crowds + Clock Mix	_____ / 4
Total	_____ / 20

Skills practiced

- Rounding
- Place value
- Expanded form
- Comparing numbers
- Elapsed time
- Multi-digit subtraction
- Multi-step problems

Teaching tip: Covers 3.NBT.A.1, 4.NBT.A.2, 4.NBT.A.3 and 3.MD.A.1 / 4.MD.A.2. For elapsed time, have kids count up to the next hour first, then add the rest of the minutes. For the game clock, remind them it counts down from 12:00.

A · Game Night Schedule

- Answer: 1 hour 25 minutes**
5:45 to 6:45 is 1 hour. 6:45 to 7:10 is 25 minutes.
- Answer: 2 hours 14 minutes**
7:10 to 9:10 is 2 hours. 9:10 to 9:24 is 14 minutes.
- Answer: 52 minutes**
7:10 to 8:00 is 50 minutes, plus 2 more.
- Answer: 67 minutes**
8:17 to 9:17 is 60 minutes, plus 7 more.

B · Watch the Game Clock

- Answer: 7 minutes 25 seconds**
 $12:00 - 4:35 = 7:25$.
- Answer: 36 played, 12 left**
 $3 \times 12 = 36$. $48 - 36 = 12$.
- Answer: 17 minutes 40 seconds**
1st quarter 12:00. 2nd so far: $12:00 - 6:20 = 5:40$.
12 min + 5 min 40 s.
- Answer: 53 minutes**
 $4 \times 12 = 48$, plus 5 = 53.

C · Crowds + Clock Mix

- Answer: 297 seats**
 $19,800 - 19,503 = 297$.
- Answer: 19,116 fans, about 19,100**
 $18,476 + 640 = 19,116$.
Tens digit 1: round down.
- Answer: 9:49 PM**
 $7:10 + 2 \text{ h } 14 \text{ min} = 9:24 \text{ PM}$.
 $9:24 + 25 \text{ minutes} = 9:49$.
- Answer: 5:15 PM**
6:40 back 1 hour is 5:40. Back 25 more minutes.