

Name Answer Key Date _____

Module 1 STUDY GUIDE

Part 1: Calculator

1 The table below shows the number of Fortnite players in different games.

Games	Number of Players
Exton	2,625
West Chester	1,403
Downingtown	1,674
Coatesville	4,533

b. What is the total number of players in all four towns? Show your work.

$$\begin{array}{r} 2,625 \\ + 1,403 \\ \hline 4,028 \end{array}$$

$$\begin{array}{r} 4,028 \\ + 1,674 \\ \hline 5,702 \end{array}$$

$$\begin{array}{r} 5,702 \\ + 4,533 \\ \hline 10,235 \end{array}$$

The total amount of players in all four towns was 10,235.

Last month 8,734 people visited Sky Zone. This month 5,476 people visited Sky Zone. How many more people went to Sky Zone last month? Show your work.

$$\begin{array}{r} 61214 \\ 8,734 \\ - 5,476 \\ \hline 3,258 \end{array}$$

Answer: 3,258 people

2. Orlando, Florida has a population of 424,658 people. Exton, Pennsylvania's population is 323,588 more people than Orlando, Florida. Boston Massachusetts has 22,455 less people than Exton, Pennsylvania. How many people are there in all 3 cities? Show your work.

Orlando = 424,658

Exton = 424,658 + 323,588 →

$$\begin{array}{r} 424,658 \\ + 323,588 \\ \hline 748,246 \end{array}$$

Boston = 748,246 - 22,455

Exton ↗

$$\begin{array}{r} 748,246 \\ - 22,455 \\ \hline 725,791 \end{array} \leftarrow \text{Boston}$$

$$\begin{array}{r} 424,658 \\ + 748,246 \\ \hline 1,172,904 \end{array}$$

Answer: 1,898,695 people

$$\begin{array}{r} 1,172,904 \\ + 725,791 \\ \hline 1,898,695 \end{array}$$

total people

Part 2: No calculator

3. Which comparison of the sums is not true?

a. $1,554,595 > 877,210 + 144,777 = 1,021,987$

b. $1,555,914 = 778,021 + 777,893 > 1,555,911$

c. $1,556,169 > 778,021 + 777,638 = 1,555,659$

d. $922,798 = 778,021 + 144,777 > 1,555,611$

Not true, should be "<" sign.

4. A football stadium has 9,875 seats. In Sunday's game people sat in 8,326 seats. How many seats were leftover?

- a. 1,496
- b. 1,549
- c. 2,460
- d. 2,639

$$\begin{array}{r} 9,875 \\ - 8,326 \\ \hline 1,549 \end{array}$$

5. Compare using $>$, $<$, or $=$. Write your answer inside the circle.

482,000 = a. 432 thousands + 5 ten thousands $>$ 430,000

H	TH	T	O
4	3	2	0
5	0	0	0

b. 5 hundred thousands - 3 thousands $>$ 200,000

$$\begin{array}{r} 482,000 \\ - 3,000 \\ \hline 479,000 \end{array}$$

c. 1 million $=$ 6 hundred thousands + 4 hundred thousands

$$\begin{array}{r} 1,000,000 \\ + 600,000 \\ + 400,000 \\ \hline 1,000,000 \end{array}$$

6. Ms. Deegler was earning points by selling pokemon cards. She earned 3,255 points in April, and 4,323 points in May. How many points did she earn in both months? Show your work.

- a. 7,785
- b. 7,578
- c. 8,577
- d. 8,757

$$\begin{array}{r} 3,255 \\ + 4,323 \\ \hline 7,578 \end{array}$$

7. Mr. Wolfe has eaten 695,510 chips this year. Mrs. Raines has eaten 359,421 chips this year. Which is the best estimate of how many times more Mr. Wolfe has eaten chips than Mrs. Raines?

- a. 400,00
- b. 700,000
- c. 300,000
- d. 336,089

$$\begin{array}{r} 695,510 \\ \approx 700,000 \end{array}$$

$$\begin{array}{r} 359,421 \\ \approx 400,000 \end{array}$$

$$\begin{array}{r} 700,000 \\ \div 400,000 \\ \hline 300,000 \end{array}$$

8. Ms. Deegler lives in Philadelphia, PA, which has a population of 359,113. Ms. DiCicco lives in West Chester, PA and that population is 35,910. Ms. Deegler says the population of her city is ABOUT 10 times as large as Ms. DiCicco's. Explain Ms. Deegler's thinking.

Hund. Th	Ten Th.	Th.	H	T	O
3	5	9	1	0	0

$10 \times 3 = 30$
 $10 \times 5 = 50$
 $10 \times 9 = 90$
 $10 \times 1 = 10$
 $10 \times 0 = 0$

$35,910 \times 10 = 359,100$,
 which is close to 359,113.
 If we round 359,113 to
 the nearest 100 we get,
 $359,113 \approx 359,100!$

9. The Eagles game on Sunday in Nashville had 9,509 people in attendance. Next game, they project there to be 11,092 to be in attendance. How many more people would there be at the second game?

$$\begin{array}{r}
 0 \ 10 \ 10 \ 8 \ 12 \\
 11,092 \\
 - 9,509 \\
 \hline
 1,583
 \end{array}$$

1,583 more people at
the next game than the
game on Sunday.