Unit 2 Study Guide

Estimation Strategies

Rounding is making a number simpler, but keeping its closest value. Numbers that have been rounded will always end in 0.

rounds down to					rounds up to					
0	1	2	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	18	19	20
20	21	22	23	24	25	26	27	28	29	30
30	31	32	33	34	35	36	37	38	39	40
40	41	42	43	44	45	46	47	48	49	50
50	51	52	53	54	55	56	57	58	59	60
60	61	62	63	64	65	66	67	68	69	70
70	71	72	73	74	75	76	77	78	79	80
80	81	82	83	84	85	86	87	88	89	90
90	91	92	93	94	95	96	97	98	99	100
rounds down to					rounds up to					

Compatible numbers that have "0" or "5" are easy to add or subtract and can be used as a compatible number.



Front-end estimation - keep the digit in the largest place value and then replace the remaining digits to 0.

$$4,183 \rightarrow 4,000$$

+ $1,428 \rightarrow 1,000$
 $5,000$

Circle all the statements that are true.

$$^{\circ}$$
 12 +5 \neq 8 + 11 $^{\circ}$ 2 + 16 \neq 9 + 7

D
 2 + 16 \pm 9 + 7

Find the sum of 293 and 641.

- a. 834
- b. 844
- c. 934
- d. 944

Use the numbers below to complete the sentence. Make sure the statement is true.

2 3 4 7 8 9 10

Which symbol makes the number sentence correct?



Write the symbol in the box.

359 is closest to -

- A 300 B 350
 - B 350 C 400
- D 450

Find the difference between 615 and 293.

- a. 322
- b. 382
- c. 482
- d. 908

Wesley's teacher wrote a subtraction problem on the white board.

390 -125

Which is the best estimate of the difference?

A 400 B 300 C 200 D 100

Karen collected 678 stickers last summer. She collected 493 stickers this summer.

What is the best estimate of the number of stickers Karen has?

- O A 900
- **B** 1,000
- **C** 1,100
- O **D** 1,200

Mrs. Smith volunteered to work at the fall festival collecting hayride tickets. On Saturday, 368 people went for a hayride and on Sunday 412 went for a hayride. About how many tickets did Mrs. Smith collect on Saturday and Sunday?

- a. 700
- b. 760
- c. 780
- d. 800



Mary and Thomas both collect pencils. Mary had 338 pencils. Thomas has 1,129 pencils. How many more pencils does Thomas have?

- a. 1,467
- b. 1,457
- c. 811
- d. 791

Mrs. Ogle ate 35 tacos and Mr. Ogle ate 18 tacos.

Which strategy is the closest estimate to how many more tacos Mrs. Ogle ate than Mr. Holmes?

- A. 35 20 = 15
- B. 40 20 = 20
- C. 35 15 = 20
- D. 40 15 = 25