Whole Numbers: Rounding, Estimation, and Ordering

Vocabulary

Rounding	Expressing numbers to the nearest hundreds, thousand, and so on

Process of Rounding:

Round 17,648 to the nearest 100. Rounded answer: 17,600	1. Look at the digit to the right of the 100's place. (Look at the 4.) 2. Since the digit is less than 5, make it and all other digits to the right zeros.

Round 17,648 to the nearest 1000. Rounded answer: 18,000	1. Look at the digit to the right of the 1000's place. (Look at the 6.) 2. Since the digit is 5 or more, increase the 7 (the 1000's place) by 1 and make the 6 and all other digits to the right zeros.

TRY:

Round each to the …	Nearest thousand	Nearest hundred	Nearest tens
83,238			
149,794			
50,783			

Vocabulary

Estimating	Using rounded numbers to quickly predict an answer

Process of Estimating:

SD would like to have some idea what lunch will cost. Estimate the total bill to the nearest whole dollar.

Item	Original Cost	Estimated Cost
Salad	4.95	5
Soup	2.88	3
Fish	8.25	8
Drink	1.59	2

Estimated cost: E = 5 + 3 + 8 + 2
E = $18

TRY:

Jay is shopping at the local market and is concerned that enough money is available to purchase the items in the cart. Estimate the total bill to the nearest whole dollar.

Item	Original Cost	Estimated Cost
Bread	2.39	
Meat	7.23	
Chips	1.79	
Pop	4.79	

Vocabulary

Inequality signs	Signs used to indicate the relationship of one number or value to another
5 is **less than** 8 written $5 < 8$	-4 is **greater than** -6 written $-4 > -6$
-2 is **less than or equal to** 3 written $-2 \leq 3$	25 is **greater than or equal to** 20+5 written $25 \geq (20+5)$
6 is **not equal to** 5 written $6 \neq 5$	

TRY:

Indicate if the following statements are true or false.

17 < 25 True or False

36 > 39 True or False

(5 + 3) ≤ (3+5) True or False

(14 – 6) ≥ (13 – 2) True or False

Use the < or > symbol to make each statement true.

(5 + 6 – 3) _____ 25

36 _____ (27 – 9 + 10)

17 _____ (25 – 9)

36 _____ (39 – 2)