

ESTIMATING VALUES

Estimates help in computation and measuring. Estimation is not guessing, it involves some form of reasoning, computation, but not guessing.

There are a number of strategies you can use to estimate values. Here are some ways of estimating.

Example 1: For addition and subtraction

$$\begin{array}{r} 551 \\ 24 \\ 684 \\ + 214 \\ \hline \end{array}$$

$$5+6+2=13$$

about **1300**

Adjust by adding: 160

$$5+2+8+1=16$$

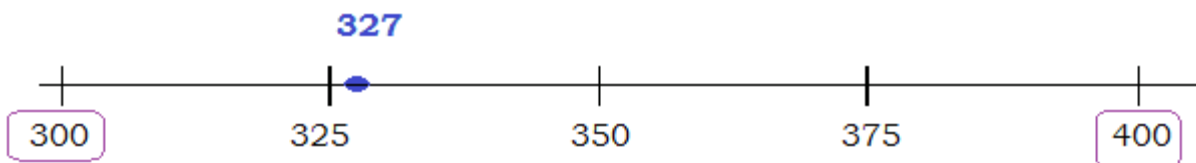
Estimated value is 1460

Example 2: Rounding to a “nice” number: 300 or 400.



I have 327 dollars in my savings account.

I have about 300 dollars in my savings account.



Example 3: With a lot of numbers, round to tens.



Round to tens:
 $10+20+10+20+10+10$
is 80

about \$80.00

Example 4: Using compatible numbers

Game Night Scores



John Sr	86	100
John Jr	49	
Sue Lou	46	
Suzie	15	

Total score is about 200 for the family at Game Night.

1. Round each number.

Round each number to the nearest ten

- a) 34 is about _____
 - b) 82 is about _____
 - c) 91 is about _____
 - d) 79 is about _____
 - e) 48 is about _____
 - f) 68 is about _____
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Round each to the nearest hundred.

- a) 546 is about _____
 - b) 214 is about _____
 - c) 857 is about _____
 - d) 937 is about _____
 - e) 112 is about _____
 - f) 674 is about _____
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Round each number to the nearest thousand.

- a) 2771 is about _____
- b) 7529 is about _____
- c) 10708 is about _____
- d) 9337 is about _____
- e) 73459 is about _____
- f) 6224 is about _____

2. Which items in the cart below can Zane buy with 20 dollars?

Workings



Answer = _____

3. Determine if the following calculations are over or under a certain number.

Example: Is $20 + 75$ over or under 100

Answer: *under 100*

a. Is $37 + 75$ over or under 100?

Answer = _____

b. Is $76 + 26$ over or under 100?

Answer =

c. Is $432 + 255$ over or under 600?

Answer =

d. Is $546 - 51$ over or under 400?

Answer =

Is $845 - 35$ over or under 800?

Answer =