

Place Value Chart

Hundred-billions	Ten-billions	Billions	Hundred-millions	Ten-millions	Millions	Hundred-thousands	Ten-thousands	Thousands	Hundreds	Tens	Ones

- ① four million, twenty-three thousand, four
- ② seventy-three thousand, two
- ③ 2.6 million

Check to see whether each number written in standard form matches the number in words. If not, correct the number in words.

④

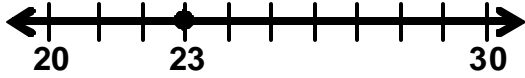


⑤

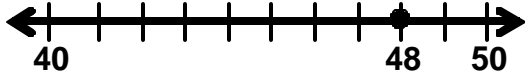


- ⑥ The world's fastest super computer is Blue Gene/L, a joint project of IBM and the Department of Energy. It can perform 135.5 trillion calculations in a second. Write this number in standard form.

Rounding & Estimating: Rounding a whole number means approximating.



23 rounded to the nearest ten is ____.



48 rounded to the nearest ten is ____.



15 rounded to the nearest ten is ____.

Rounding Whole Numbers to a Given Place Value

🌀 **Step 1.** Locate the digit to the right of the given place value.

🌀 **Step 2.** If this digit is 5 or greater, add 1 to the digit in the given place value and replace each digit to its right by 0.

OR

🌀 **Step 2.** If this digit is less than 5, replace it and each digit to its right by 0.

Given the number 389,543

- ① Round to the nearest hundred
- ② Round to the nearest ten
- ③ Round to the nearest hundred thousand
- ④ Round to the nearest thousand
- ⑤ In 2004, the U.S. Census Bureau gave the U.S. population as 285,691,501 persons.
 - a) Approximate this count by rounding to the nearest million.
 - b) Approximate the count by rounding to the nearest ten thousand.

Perimeter & Area

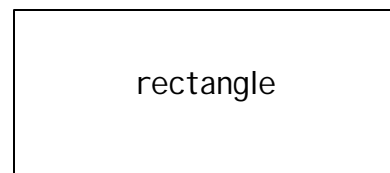
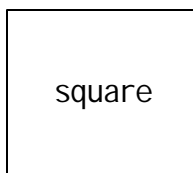
To earn money for college, you and a friend run a home-improvement business during the summer. One of the first tasks in any job is to calculate the quantity of material to buy. One client needs floor molding and wall-to-wall carpet installed in a 20 ft x 15 ft room.

① How much floor molding will you need for the room (ignore the door openings for now)?
[perimeter]

② How many square feet [squares that measure 1 foot by 1 foot] will you need for the room? [area]

perimeter:

area:



Average: the sum of a lists of numbers divided by the amount of numbers.

$$\text{average} = \frac{\text{sum of numbers}}{\text{amount of numbers}}$$

- ① Find the average test grade: test #1 - 88, test #2 - 93, test #3 - not taken

Rockville, Maryland

Elevation: 440 feet Latitude: 39 06N Longitude: 077 06W

Average Temperature

Years on Record: 30

YEAR	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
°F	53.4	30.7	33.1	43.4	52.4	62	70.4	74.7	73	65.7	54.9	44.9	35.1

Average High Temperature

Years on Record: 30

YEAR	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
°F	64.2	40	43.1	54.6	64.2	73.8	81.8	85.8	83.9	76.9	66.8	55.5	44.5

Average Low Temperature

Years on Record: 30

YEAR	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
°F	42.4	21.4	22.9	32.1	40.6	50.1	58.9	63.5	62	54.4	42.9	34.2	25.7

- ② Use the chart above to find the following averages for June, July, and August.
 a) average temperature b) average high temperature c) average low temperature