

Name _____

Date _____

Place Value

Write the place and the value of the underlined digit.

1. 30,0 <u>3</u> 0 <i>tens or 30</i>	2. <u>2</u> 0,088	3. 8, <u>6</u> 14	4. 32,57 <u>4</u>
5. <u>2</u> ,230	6. 8 <u>7</u> ,953	7. 8,0 <u>0</u> 4	8. 5,67 <u>5</u>
9. 91,04 <u>3</u>	10. 84,9 <u>2</u> 9	11. <u>1</u> ,066	12. 4,3 <u>0</u> 0
13. <u>1</u> 8,305	14. 93,38 <u>8</u>	15. <u>7</u> ,330	16. 69,6 <u>6</u> 9
17. 1, <u>7</u> 78	18. 2,8 <u>0</u> 9	19. 72,14 <u>9</u>	20. <u>7</u> ,977
21. 2, <u>7</u> 61	22. 7,4 <u>8</u> 5	23. 3,07 <u>2</u>	24. 54,98 <u>6</u>
Adapted from EdHelper.com			

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Place Value

Write each number in standard form.

1. $40 + 300 + 9,000 + 40,000$	2. $7 + 50,000 + 700$
3. 2 hundreds 5 thousands 4 ones 9 tens	4. eight thousand, six hundred eighty-three
5. fifty-eight thousand, five hundred eighty-nine	6. 5 ten thousands 9 ones 5 thousands
7. $8 + 30 + 200 + 9,000$	8. thirty-three thousand, one hundred twenty-eight
9. $3,000 + 900 + 3 + 70$	10. six thousand, five hundred twelve
11. sixteen thousand, nine hundred sixty-five	12. $5 + 600 + 7,000 + 20,000$
13. eighty-nine thousand, eight hundred twenty-nine	14. $50 + 2 + 2,000 + 200$
15. 6 tens 5 thousands 4 hundreds	16. forty-one thousand, seven hundred seventy-two
17. sixty-two thousand, six hundred seventy	18. 8 thousands 9 ones 7 hundreds 8 tens
19. $60 + 4,000 + 600 + 5$	20. $70,000 + 700 + 4 + 70 + 7,000$
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Rounding Whole Numbers

Tip.... Put a dot over the number in the place you are rounding to. This is the number that will stay the same or go up one. Look at the number after the dot to decide. 5 or bigger and the number goes up, smaller than 5 and the number stays the same.

1. Round the following numbers to the nearest ten:

- a) 89 _____ d) 514 _____
b) 2,673 _____ e) 97 _____
c) 265 _____ f) 2,753 _____

2. Round the following numbers to the nearest hundred:

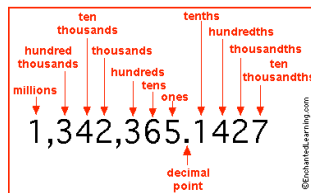
- a) 847 _____ d) 333 _____
b) 2,978 _____ e) 5,496 _____
c) 5,048 _____ f) 555 _____

3. Round the following numbers to the nearest thousand:

- a) 14,389 _____ d) 9,520 _____
b) 29,610 _____ e) 56,239 _____
c) 3,492 _____ f) 89,743 _____

4. Round the following numbers to the nearest ten-thousand:

- a) 24,987 _____ d) 24,033 _____
b) 37,096 _____ e) 295,474 _____
c) 145,302 _____ f) 77,330 _____



MEAN, MODE, AND MEDIAN

The ***mean*** of a group of numbers is the average. To find the mean, add all the numbers and divide by how many numbers there are.

The ***mode*** in a group of numbers is the number that occurs most often.

The ***median*** is the middle number. If there is no middle number, find the average of the middle two numbers.

Example: Data: 5, 5, 8, 9, 12, 15

mean = $5+5+8+9+12+15=54$ $54/6=9$ 9 is the ***mean*** or ***average***.

mode = 5

median = 8.5 Because there is no middle number, you average the middle two numbers.

Collect data from your classmates and find the mean, medium, and mode of each set of numbers.

1. How many miles away do you live from school?

Mean _____ ***Median*** _____ ***Mode*** _____

Data:

2. How many children do you have?

Mean _____ ***Median*** _____ ***Mode*** _____

3. *How many years have you been out of school?*

Mean _____ *Median* _____ *Mode* _____

4. *How much homework do you do?*

Mean _____ *Median* _____ *Mode* _____

5. *What is your age?*

Mean _____ *Median* _____ *Mode* _____

6. *How many hours a week will you attend classes?*

Mean _____ *Median* _____ *Mode* _____

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Exponents

$5^2 = 5 \times 5 = 25$ 5 is the base number and 2 is the exponent.
The exponent tells you how many times to multiply the base number by itself.

Write each expression in exponential form and find the value.

1. $2 \cdot 2 \cdot 2 = 2^3 = 8$	2. 4×4
3. $(3)(3)(3)$	4. 18×18
5. $6 \cdot 6 \cdot 6$	6. $5 \cdot 5 \cdot 5$
7. 9×9	8. 10×10
9. $(2)(2)(2)(2)$	10. 5×5
11. $2 \cdot 2$	12. $(15)(15)$
13. 3×3	14. $7 \times 7 \times 7$
15. $14 \cdot 14$	16. 5^2
17. $8 \times 8 \times 8$	18. 8^2
19. 11^2	20. $4 \times 4 \times 4$
21. 2^4	22. 4^2

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Order of Operations

1. $7 \times 39 + 3 \times 1$	2. $62 + 5 \times 12 - 2$
3. $94 - 26 + 40 \times 2$	4. $84 \div 2 + 5^2$
5. $78 + 25 - 10 \times 4$	6. $1 + 9 \times 72 \div 9$
7. $(81 \times 2) - 4^2$	8. $24 - 2^2 \times 5$
9. $5(10 + 10) \div 10$	10. $(88 + 5) + 15 \times (30 - 1)$
11. $9(15 + 25) + 35 \div 7$	12. $47 - 32 + 5^2 \times 2$
13. $93 - 1 \times 2^2$	14. $12 + 60 \div 6 \times 52$
15. $9^2 - 5 \times 12$	16. $56 \div 8 \times 4$
17. $(9 \times 15) - 33 + 5 \times 2$	18. $12 + 52 \div 4 - 3$
19. $64 \times 4 - 24 \times 2^3$	20. $66 + 37 \times 18 - 3 \times 2$

FOLLOW THE ORDER OF OPERATIONS

1. Do what's in Parenthesis first ()
2. Do all Exponents and square roots
3. Multiply and Divide, left to right, whichever comes first
4. Add and Subtract, left to right, whichever comes first

Please Excuse My Dear Aunt Sally

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Evaluate Expressions

Complete by evaluating each expression.

1. $7m - 3$ for $m = 3$	2. $2n$ for $n = 5$	3. $4r - 4$ for $r = 2$
4. $3x$ for $x = 8$	5. $8d + 21$ for $d = 6$	6. $9w + 27$ for $w = 4$
7. $q \div 4$ for $q = 8$	8. $6t$ for $t = 3$	9. $5h$ for $h = 6$
10. $7k - 52$ for $k = 9$	11. $5a + 42$ for $a = 7$	12. $2u + 17$ for $u = 5$
13. $3b - 2$ for $b = 8$	14. $4c - 10$ for $c = 4$	15. $9y + 41$ for $y = 5$
16. $8v$ for $v = 6$	17. $6s$ for $s = 8$	18. $\frac{p}{9} - 2$ for $p = 27$
19. $3e - 23$ for $e = 9$	20. $6f + 6$ for $f = 2$	21. $s \div 2$ for $s = 12$
22. $4z + 43$ for $z = 6$	23. $2g - 3$ for $g = 4$	24. $7h$ for $h = 2$

Adapted from EdHelper.com