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Significant Figures Worksheet

When doing calculations, we have to know how many significant figures (sig figs) we have so that we can report our answer with the proper amount of precision. There are a few rules to learn to be able to figure out which numbers are significant.

Rule	Example	Number of Sig Figs
<b>A number is significant if it is:</b>		
not a zero	4.4 mg	2
	100.1 L	4
a zero between nonzero numbers	1.007 kg	4
	2.0 cm	2
a zero to the right of a decimal	92.0 K	3
	450.00 g	5
<b>all digits of the number when written in scientific notation</b>		
	$1.6 \times 10^3$ ft	2
	$9.30 \times 10^2$ mm	3
<b>A zero is not significant if it is:</b>		
at the beginning of a decimal number (since the zero is simply telling us a place holder)	0.00001 g	1
	0.025 m	2
<b>A zero may or may not be significant if it is:</b>		
between other numbers or at the end of a number without a decimal point. In these cases, we have to write the number in scientific notation so that sig figs are clear	920000 K 2500 lb	2 or 6 3 or 4

Now, try some on your own! List the number of significant figures.

1. 384 m
2. 405,000 mg
3. 69.00 K
4.  $3.8 \times 10^3$  lb
5. 0.0005 L
6. 234.02 mm

When multiplying and dividing with significant figures, the answer will have the same amount of numbers as the number with the *fewest* significant figures. For example:

$2.5 \times 120.73 = 301.825$  gives a final answer of 3.0e10P

○ sig figs times 5 sig figs means our final answer can only have 2 sig figs since  $2 < 5$

$101 \times 82.06 = 8280.06$  gives a final answer of 8.29e10P

○ sig figs times 4 sig figs means our final answer can only have 3 sig figs since  $3 < 4$

$12.00 \times 16.0 = 192$  gives a final answer of 192

○ sig figs times 3 sig figs means our final answer can only have 3 sig figs since  $3 < 4$

$801 \div 89 = 9$  gives a final answer of 9.0

○ sig figs divided by 2 sig figs means our final answer can only have 2 sig figs since  $2 < 3$

Significant Figures.doc

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Worksheet 1

Scientific Notation/Significant Figures

1. Convert each of the following into scientific notation.

- a) 3427
- d) 172
- g)  $3100.0 \times 10^2$
- j) 0.0000455
- m)  $0.982 \times 10^{-3}$
- p)  $3.03 \times 10^{-1}$
- s) 0.00565
- v)  $1000 \times 10^{-3}$
- b) 0.00456
- e) 0.000984
- h)  $0.0114 \times 10^4$
- k) 2205.2
- n) 0.0473
- q)  $20.4 \times 10^5$
- t) 1362205.2
- c) 123,453
- f) 0.502
- i) 107.2
- l)  $30.0 \times 10^{-2}$
- o) 650.502
- r) 1.29
- u)  $450.0 \times 10^3$

2. Determine the number of significant figures in each of the following:

- a) 3427
- d) 172
- g)  $3100.0 \times 10^2$
- j) 0.0000455
- m)  $0.982 \times 10^{-3}$
- p)  $3.03 \times 10^{-1}$
- s) 0.00565
- v)  $1000 \times 10^{-3}$
- b) 0.00456
- e) 0.000984
- h)  $0.0114 \times 10^4$
- k) 2205.2
- n) 0.0473
- q)  $20.4 \times 10^5$
- t) 1362205.2
- w)  $546,000 \pm 10$
- c) 123,453
- f) 0.502
- i) 107.2
- l)  $30.0 \times 10^{-2}$
- o) 650.502
- r) 1.29
- u)  $450.0 \times 10^3$
- x)  $546,000 \pm 1000$

3. Convert each into decimal form.

- $1.56 \times 10^4$
- $0.00259 \times 10^6$
- $0.00259 \times 10^3$
- $0.56 \times 10^{-2}$
- $0.000459 \times 10^{-1}$
- $0.0209 \times 10^{-3}$
- $3.69 \times 10^{-2}$
- $13.69 \times 10^{-2}$
- $736.9 \times 10^5$
- $6.9 \times 10^4$

4. Calculate the following. Give the answer in correct scientific notation.

- a)  $4.53 \times 10^5$
- c)  $2.34 \times 10^{24}$
- e)  $9.10 \times 10^3$
- g)  $6.18 \times 10^{-45}$
- b) 1913.0
- d)  $2.130 \times 10^5$
- f) 1113.0
- h)  $4.25 \times 10^{-3}$
- $+ 2.2 \times 10^6$
- $+ 1.92 \times 10^{23}$
- $+ 2.2 \times 10^6$
- $+ 4.72 \times 10^{-44}$
- $- 4.6 \times 10^4$
- $- 6.6 \times 10^2$
- $- 14.6 \times 10^2$
- $- 1.6 \times 10^{-2}$

5. Calculate the following. Give the answer in correct scientific notation.

- a)  $3.95 \times 10^{17} / 1.5 \times 10^6$
- c)  $4.44 \times 10^7 / 2.25 \times 10^5$
- e)  $1.05 \times 10^{-26} / 4.2 \times 10^{56}$
- g)  $6.022 \times 10^{23} / 3.011 \times 10^{-56}$
- b)  $(3.5 \times 10^2)(6.45 \times 10^{10})$
- d)  $(4.50 \times 10^{-12})(3.67 \times 10^{-12})$
- f)  $(2.5 \times 10^9)(6.45 \times 10^4)$
- h)  $(6.88 \times 10^3)(3.45 \times 10^{-18})$

Name: \_\_\_\_\_

Significant Figures

Sheet 1

Find the number of significant digits.

- 1) 120
- 2) 0.013567
- 3) 937.020
- 4)  $3500 \times 10^{-6}$
- 5)  $2.50 \times 10^6$
- 6) 004102
- 7) 0.0008
- 8) 21.03672
- 9)  $6193 \times 10^{-8}$
- 10) 50
- 11) 98762000
- 12)  $190.070 \times 10^8$
- 13) 32.004850
- 14) 0.0470

Name: \_\_\_\_\_Date: \_\_\_\_\_

Significant Figures

Addition and Subtraction

Complete the following problems and round to the correct number of significant figures.

1. 35.6 + 34.27 = 69.87

2. 4.337 + 84.7128 = 89.050

3. 6.2 + 4.114 = 10.3

4. 7.331 + 12.42 = 19.75

5. 22.5285 + 22.14 + 4.286 = 48.95

6. 48.489 + 1.135 + 6.2 = 55.824

7. 48.825 - 9.1 = 39.7

8. 16.221 - 6.28 = 9.94

9. 101.12 - 98.7 = 2.4

10. 13.7 + 25.466 = 39.2

11. 45.758 - 33.22 = 12.54

12. 19.6 - 8.77 = 10.8

13. 23 + 18.4 + 22.3 = 63.7

14. 24.5764 + 1.9833 = 26.5597

15. 8.31 + 7.2 + 9.4626 = 24.97

16. 3.94 + 68.77 + 83.197 = 155.91

17. 12.484 + 1.6 = 14.1

18. 19.117 - 8.11 = 11.0

19. 7.6924 + 9.6 + 4.888 = 22.18

20. 19.8 - 8.75 + 11 = 22

123

456789

10

Name: \_\_\_\_\_Mr. Sheehan's Pd \_\_\_\_\_

**Chp 3 Sig Fig, A/P, and % Error Review WS**

1. State the number of significant digits in each measurement.

1) 280,400 m

2) 2.84 km

3) 5.029 m

4) 0.003068 m

5) 4.6 x 10<sup>5</sup> m

6) 4.06 x 10<sup>-5</sup> m

7) 750. m

8) 0.075 m

9) 75,000 m

10) 75.00 m

11) 75,000.0 m

12) 0.0100200 cL

2. Round the following numbers: A) 1 B) 2 C) 3 D) 4 sig figs.

21.860051 A) B) C) D)

375.9723 A) B) C) D)

0.0480802744 A) B) C) D)

3. Solve the following problems and report answers with appropriate number of significant digits.

1) 6.201 cm + 7.4 cm + 0.68 cm +12.0 cm =

2) 1.6 km + 1.62 m +1200 cm =

3) 8.264 g - 7.8 g =

4) 10.4168 m - 6.0 m =

5) 12.00 kg+15.001 kg=

6) 1.31 cm x 2.3 cm =

7) 5.7621 m x 6.201 m =

8) 20.2 cm / 7.4107 s =

9) 40.002 g / 13.000005 g =

4. Express the left side in scientific notation and right side in standard notation.

123,876.3	8.45 X 10 <sup>7</sup>
1,230,000	6.74 X 10 <sup>3</sup>
0.002380	5.767 X 10 <sup>-6</sup>
0.0000205	4.7 X 10 <sup>-5</sup>
15,009.22	9.7112 X 10 <sup>2</sup>

if it is less than 5 then round the number down by removing the rest of the number after the 3rd significant digit and filling in with zeros; if it is 5 or more then round the number up by adding one on to the 3rd significant digit and removing the rest of the number and filling in with zeros. You might need to round a number to the nearest 10, 100, 1000, etc., or you might need to round it to 1, 2 or even 3 decimal places. 73.283 rounds down to 70 because the 2nd significant digit is a 3. More Double digit Multiplication Worksheets (harder) Take a look at some more of our worksheets similar to these. We do not collect any personal data from our quizzes, except in the 'First Name' field which is optional. if it is less than 5 then round the number down by removing the rest of the number after the 2nd significant digit and filling in with zeros; if it is 5 or more then round the number up by adding one on to the 2nd significant digit and removing the rest of the number and filling in with zeros. Using these sheets will help your child to: Understand decimals; Use place value notation with tenths and hundredths; Know how to read and write numbers to 10 million; Understand place value to 10 million. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! We have more 2-digit multiplication worksheets, including 2-digit x 3-digit multiplication problems on this page. Sheets 1 to 4 consists of 15 problems; sheets 5 and 6 consist of 20 problems. How to round a number to 2 significant figures Look at the 3rd significant digit that the number has. Rounding Numbers Worksheet Challenges On this webpage, you will find a larger selection of our rounding decimals challenges. Thank you very much for your cooperation. Sheets 2 to 4 have harder 2-digit numbers to multiply and answers that are generally larger than 1000. These Significant Figures Worksheets will produce twenty problems per worksheet. We also collect the results from the quizzes which we use to help us to develop our resources. Here you will find a selection of free printable rounding Worksheets, which will help your child learn to round numbers to either 1, 2 or 3 significant figures. Using these sheets will help your child to: learn their multiplication tables up to 10 x 10; understand and use different models of multiplication; solve a range of Multiplication problems, digits that make up a number. The 2nd significant digit is the digit after the first. 0.07284 rounds down to 0.0728 because the 4th significant digit is a 4. You may select the numbers to be whole, decimal, scientific notation, or all three. Our generator will create the following worksheets: rounding off to the nearest 10, 100, 1000 or 10000 rounding to the nearest whole, to 1dp, or 2dp. For more information on the information we collect, please take a look at our Privacy Policy If the error message 'File Unavailable' should appear in a pop-up window with a 'RELOAD' option in the bottom right corner of the screen. Don't click the RELOAD link - it doesn't do anything click anywhere on the screen but not inside the pop-up window the pop-up window should disappear and you should be able to see your results. Sheets 3 to 6 involve multiplying a 2-digit number by single digit numbers and finding increasing trickier products. You may select the problems to be addition, subtraction, or both. Welcome to the Math Salamanders Rounding Significant Figures collection. At the end of the quiz, you will get the chance to see your results by clicking 'See Score'. significant figures means that you are only interested in the first ... This will take you to a new webpage where your results will be shown. Here you will find a range of free printable rounding worksheets to help your child learn to round numbers to either 1,2 or 3 significant figures. All the free 3rd Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 3rd Grade. For incorrect responses, we have added some helpful learning points to explain which answer was correct and why. We have plenty of worksheets on this page to help you practice the skills of multiplying 2-digit numbers by 1 or 2 digits. Here is our generator for generating your own rounding off numbers worksheets. 175 rounds up to 180 because the 3rd significant digit is a 5. Adding and Subtracting with Significant Figures Worksheet These Significant Figures Worksheets are great for solving addition and subtraction problems with significant figures and correctly rounding to the correct answer. When you are rounding a number to 2 significant figures, you are trying to reduce the number to a two digits and zeros (and possibly a decimal point) to indicate its place value. Within each section, the sheets are carefully graded with the easiest sheets first. You may select the problems to be multiplication, division, or both; You can print a copy of your results from this page, either as a pdf or as a paper copy. Rounding to 2 significant figures will give you a reasonable approximation of your answer and it is usually enough for most quantities where you do not have to be exact. The rounding numbers worksheets in this section involve rounding numbers to the nearest 10, 0.003826 rounds down to 0.0038 because the 3rd significant digit is a 2. Our Multiplication worksheet generator will allow you to create your own custom worksheets to print out, complete with answers. Rounding to 3 significant figures will give you a very close approximation of your answer and it is usually the most precise that you will need to be for everyday working out. The challenges can be tackled individually or with a partner. Try our NEW quick quiz at the bottom of this page. Each sheet comes with a separate printable answer sheet. Examples 5271 rounds up to 5300, because the 3rd significant digit is a 7. Often when you are dealing with numbers in the real world, you do not need to know the exact answer but simply an approximation. Want to round numbers to the nearest decimal place, you can do that too! Select the numbers you want to practice with, and print out your results when you have finished. How to round a number to 3 significant figures Look at the 4th significant digit that the number has. You can also use the practice zone for benchmarking your performance, or using it with a group of children to gauge progress. 0.003826 rounds up to 0.004 because the 2nd significant digit is an 8. These Significant Figures Worksheets are great for testing students in their ability on identifying and working with significant digits. Each challenge involves using rounding knowledge and properties of numbers to work out the correct answer. 0.60828 rounds down to 0.6 because the 2nd significant digit is a 0. Click here for a Detailed Description of all the Significant Figures Worksheets. 0.003826 rounds up to 0.00383 because the 4th significant digit is a 6. Using these sheets will help your child to: apply their knowledge of rounding to the nearest 10, 100 or 1000; develop their problem solving skills; develop their understanding about place value and properties of numbers. Rounding to 1 significant figure will give you a rough approximation of what the answer is. You can round numbers to the nearest 10, 100 or even 1000. 0.60828 rounds up to 0.61 because the 3rd significant digit is an 8. All the free 4th Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 4th Grade. All the free Rounding Worksheets in this section support the Elementary Math Benchmarks. We have split the worksheets on this page into two sections: 2-digit x 1-digit multiplication (3rd grade) 2-digit x 2-digit multiplication (4th grade) Each section ends with some trickier challenge sheets for more able students. All the rounding challenges support elementary math benchmarks. Identify Significant Digits Worksheet These Significant Figures Worksheets are great for testing the students in their ability to determine the number of significant digits for a given number. Need to create your own long or short multiplication worksheets quickly and easily? Using these sheets will help your child to: round numbers to the nearest 1,2 or 3 significant figures. Sheets 1 and 2 involve multiplying 2-digit numbers by 2, 3, 4 or 5. This error is a Google error in the Google Quiz app - it is currently unresolved! We would be grateful for any feedback on our quizzes, please let us know using our Contact Us link, or use the Facebook Comments form at the bottom of the page. Click the image to be taken to that Significant Figures Worksheet. Follow these 3 easy steps to get your worksheets printed out perfectly! How to Print or Save these sheets Need help with printing or saving? See below for help to round a number to a set number of significant figures. Rounding Decimals Worksheet Challenges Here you will find a range of Free Printable 4th Grade Decimal Place Value Worksheets. These sheets are carefully graded so that the easier sheets come first and give extra support. Here you will find a range of Multiplication Worksheets to help you become more fluent and accurate with your tables. Here you will find a range of Free Printable Multiplication Games to help kids learn their multiplication facts. Want to test yourself to see how well you have understood this concept?. Our quizzes have been created using Google Forms. 73.483 rounds down to 73 because the 3rd significant digit is a 4. The challenges involve rounding numbers to the nearest 1, 0.1 or 0.01. The second significant figure is the digit after the 1st significant figure. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! These sheets are aimed at 4th graders. Multiplying and Dividing with Significant Figures Worksheet These Significant Figures Worksheets are great for solving multiplication and division problems with significant figures and correctly rounding to the correct answer. They are at a more basic level than those on this page. We collect this information so that if a class of students is taking a quiz, the individual results can be recorded along with the first name of the student. Rounding to significant figures is different from rounding to decimal places. Multiplication Math Games How to Print or Save these sheets Need help with printing or saving? The third significant figure is the digit after the 2nd significant figure, and so on. The first significant figure is the first non-zero digit a number has. In a decimal, the first significant digit is the first non-zero digit. Examples 8726 rounds up to 9000, because the 2nd significant digit is a 7. Follow these 3 easy steps to get your worksheets printed out perfectly! The Math Salamanders hope you enjoy using these free printable Math worksheets and all our other Math games and resources. How to Print or Save these sheets Need help with printing or saving? Using these sheets will help your child to: apply their knowledge of rounding to the nearest one, tenth or hundredth; develop their problem solving skills; develop their understanding about decimal place value and properties of numbers. 152 rounds up to 200 because the 2nd significant digit is a 5. NB. Rounding to ... The following worksheets involve using and understanding decimal notation - tenths and hundredths. Sheet 1 involves 2-digit by 2-digit multiplication with smaller numbers and answers up to 1000. Take a look at some more of our worksheets similar to these. How to round a number to 1 significant figure Look at the 2nd significant digit that the number has. When you are rounding a number to 3 significant figures, you are trying to reduce the number to a 3 digits and zeros (and possibly a decimal point) to indicate its place value. Significant Figures Rules Handout This Significant Figures Worksheet is a great handout for reinforcing the rules of significant figures. When you are rounding a number to 1 significant figures, you are trying to reduce the number to a single digit and zeros (and possibly a decimal point) to indicate its place value. This is the digit which is two digits after the most significant digit. Use the "Identify Significant Digits Worksheet" to measure their ability to correctly identify the number of significant digits in a number. Using these games will help your child to learn their multiplication facts to 5x5 or 10x10, and also to develop their memory and strategic thinking skills. These sheets are aimed at 3rd graders. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page. The "Adding and Subtracting" with Significant Figures Worksheets are great for solving problems with significant digits and rounding to the correct answer. Page 2 Welcome to our 2 Digit Multiplication Worksheets page. The "Significant Figures Rules Handout Worksheet" is great for reinforcing the rules in determining the correct number of significant digits in a number. 73.285 rounds up to 73.3 because the 4th significant digit is an 8. In our Rounding Practice zone, you can practice rounding a range of numbers. rounding off to 1sf, 2sf or 3sf Rounding Off Numbers Worksheets Here is our rounding challenges collection which will give your child an opportunity to apply their rounding learning. 1805 rounds up to 1810 because the 4th significant digit is a 5. Examples 5261 rounds down to 5260, because the 4th significant digit is a 1. if it is less than 5 then round the number down by removing the rest of the number after the 1st significant digit and filling in with zeros; if it is 5 or more then round the number up by adding one on to the 1st digit and removing the rest of the number and filling in with zeros. In order to continue enjoying our site, we ask that you confirm your identity as a human.

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