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How many significant figures do the following numbers have?

- 1) 956 _____
- 2) 2.1390 _____
- 3) 4390 _____
- 4) 0.500 _____
- 5) 500 _____
- 6) 5.9×10^4 _____
- 7) 0.40001 _____
- 8) 1.7×10^3 _____
- 9) 650. _____
- 10) 4.150×10^4 _____
- 11) 367000 _____
- 12) 0.0000620 _____
- 13) 96 _____
- 14) 678.02400 _____
- 15) 30000 _____
- 16) 0.002 _____
- 17) 91630 _____
- 18) 0.000400 _____
- 19) 6.0 _____
- 20) 352 _____

Name _____

Significant Figures Worksheet

Determine the number of significant figures in the following measurements. All digits are significant except for place holding zeros are NOT significant.

- | | | |
|------------------------|---------------------------|---------------------------|
| 1. 0.02 _____ 2 _____ | 6. 5,000.0 _____ 5 _____ | 11. 1.020 _____ 4 _____ |
| 2. 0.020 _____ 3 _____ | 7. 5,000 _____ 4 _____ | 12. 0.0010 _____ 2 _____ |
| 3. 501 _____ 3 _____ | 8. 6,051.00 _____ 6 _____ | 13. 4,200 _____ 3 _____ |
| 4. 501.1 _____ 4 _____ | 9. 0.1020 _____ 4 _____ | 14. 4,200. _____ 4 _____ |
| 5. 5,000 _____ 1 _____ | 10. 0.0005 _____ 1 _____ | 15. 4,200.0 _____ 5 _____ |

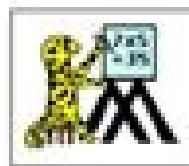
Round each of the following numbers to three significant figures

- | | |
|---|--|
| 16. 80,412 _____ 80,400 _____ | 21. 510,554 _____ 511,000 _____ |
| 17. 0.003299 _____ 0.00330 _____ | 22. 1.29532 _____ 1.30 _____ |
| 18. 30,936,300 _____ 30,900,000 _____ | 23. 19.39 _____ 19.4 _____ |
| 19. 3.004×10^5 _____ 3.00×10^5 _____ | 20. 5,999 _____ 6.00×10^3 _____ |
| 20. 2.9999×10^8 _____ 3.00×10^8 _____ | 21. 1,296,423 _____ 1.30×10^6 _____ |

When adding and subtracting measurements, the answer must be rounded to report the same degree of accuracy as the LEAST accurate measurement (Look at the decimal places)

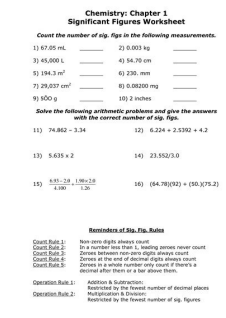
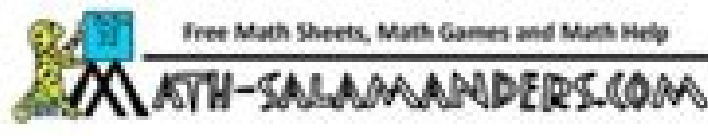
Round all answers to the correct number of significant figures. Include units in your answers!

22. 12.01 mL + 35.2 mL + 6 mL = _____ 53 mL _____
23. 55.45 g - 28.9 g = _____ 26.6 g _____
24. 0.15 cm + 1.15 cm + 2.051 cm = _____ 3.35 cm _____
25. 505 kg - 450.25 kg = _____ 55 kg _____



ROUNDING UP TO 2 SIGNIFICANT FIGURES SHEET 2

Number	Round to 1sf	Round to 2sf
1628	2000	1600
247		
5209		
1643		
18		
5.38		
2.73		
0.726		
0.319		
0.463		
0.0183		
0.0736		
3847		
629		
18.29		
0.8273		
1.347		
2.636		
0.1937		
0.038		
13.473		
1758.2		



Significant Figures in Measurement and Calculator Worksheets

1. Determine the number of significant figures in each of the following measurements.

a. 4.56 g	iii. 0.000 001
b. 0.000 001 g	iv. 0.000 001
c. 0.000 001 g	v. 0.000 001
d. 0.000 001 g	vi. 0.000 001
e. 0.000 001 g	vii. 0.000 001
f. 0.000 001 g	viii. 0.000 001
g. 0.000 001 g	ix. 0.000 001
h. 0.000 001 g	x. 0.000 001
i. 0.000 001 g	xi. 0.000 001
j. 0.000 001 g	xii. 0.000 001
k. 0.000 001 g	xiii. 0.000 001
l. 0.000 001 g	xiv. 0.000 001
m. 0.000 001 g	xv. 0.000 001
n. 0.000 001 g	xvi. 0.000 001
o. 0.000 001 g	xvii. 0.000 001
p. 0.000 001 g	xviii. 0.000 001
q. 0.000 001 g	xix. 0.000 001
r. 0.000 001 g	xx. 0.000 001
s. 0.000 001 g	xxi. 0.000 001
t. 0.000 001 g	xxii. 0.000 001
u. 0.000 001 g	xxiii. 0.000 001
v. 0.000 001 g	xxiv. 0.000 001
w. 0.000 001 g	xxv. 0.000 001
x. 0.000 001 g	xxvi. 0.000 001
y. 0.000 001 g	xxvii. 0.000 001
z. 0.000 001 g	xxviii. 0.000 001
aa. 0.000 001 g	xxix. 0.000 001
ab. 0.000 001 g	xxx. 0.000 001
ac. 0.000 001 g	xxxi. 0.000 001
ad. 0.000 001 g	xxxii. 0.000 001
ae. 0.000 001 g	xxxiii. 0.000 001
af. 0.000 001 g	xxxiv. 0.000 001
ag. 0.000 001 g	xxxv. 0.000 001
ah. 0.000 001 g	xxxvi. 0.000 001
ai. 0.000 001 g	xxxvii. 0.000 001
aj. 0.000 001 g	xxxviii. 0.000 001
ak. 0.000 001 g	xxxix. 0.000 001
al. 0.000 001 g	xl. 0.000 001
am. 0.000 001 g	xli. 0.000 001
an. 0.000 001 g	xlii. 0.000 001
ao. 0.000 001 g	xliiii. 0.000 001
ap. 0.000 001 g	xliv. 0.000 001
aq. 0.000 001 g	xlv. 0.000 001
ar. 0.000 001 g	xlvi. 0.000 001
as. 0.000 001 g	xlvii. 0.000 001
at. 0.000 001 g	xlviii. 0.000 001
au. 0.000 001 g	xlvix. 0.000 001
av. 0.000 001 g	l. 0.000 001
aw. 0.000 001 g	li. 0.000 001
ax. 0.000 001 g	lii. 0.000 001
ay. 0.000 001 g	liiii. 0.000 001
az. 0.000 001 g	liv. 0.000 001
ba. 0.000 001 g	lv. 0.000 001
bb. 0.000 001 g	lvi. 0.000 001
bc. 0.000 001 g	lvii. 0.000 001
bd. 0.000 001 g	lviii. 0.000 001
be. 0.000 001 g	lvix. 0.000 001
bf. 0.000 001 g	lxx. 0.000 001
bg. 0.000 001 g	lxxi. 0.000 001
bh. 0.000 001 g	lxxii. 0.000 001
bi. 0.000 001 g	lxxiii. 0.000 001
bj. 0.000 001 g	lxxiv. 0.000 001
bk. 0.000 001 g	lxxv. 0.000 001
bl. 0.000 001 g	lxxvi. 0.000 001
bm. 0.000 001 g	lxxvii. 0.000 001
bn. 0.000 001 g	lxxviii. 0.000 001
bo. 0.000 001 g	lxxix. 0.000 001
bp. 0.000 001 g	lxxx. 0.000 001
bq. 0.000 001 g	lxxxi. 0.000 001
br. 0.000 001 g	lxxxii. 0.000 001
bs. 0.000 001 g	lxxxiii. 0.000 001
bt. 0.000 001 g	lxxxiv. 0.000 001
bu. 0.000 001 g	lxxxv. 0.000 001
bv. 0.000 001 g	lxxxvi. 0.000 001
bw. 0.000 001 g	lxxxvii. 0.000 001
bx. 0.000 001 g	lxxxviii. 0.000 001
by. 0.000 001 g	lxxxix. 0.000 001
bz. 0.000 001 g	lxxxx. 0.000 001
ca. 0.000 001 g	lxxxxi. 0.000 001
cb. 0.000 001 g	lxxxxii. 0.000 001
cc. 0.000 001 g	lxxxxiii. 0.000 001
cd. 0.000 001 g	lxxxxiv. 0.000 001
ce. 0.000 001 g	lxxxxv. 0.000 001
cf. 0.000 001 g	lxxxxvi. 0.000 001
cg. 0.000 001 g	lxxxxvii. 0.000 001
ch. 0.000 001 g	lxxxxviii. 0.000 001
ci. 0.000 001 g	lxxxxix. 0.000 001
cj. 0.000 001 g	lxxxxx. 0.000 001
ck. 0.000 001 g	lxxxxxi. 0.000 001
cl. 0.000 001 g	lxxxxxii. 0.000 001
cm. 0.000 001 g	lxxxxxiii. 0.000 001
cn. 0.000 001 g	lxxxxxiv. 0.000 001
co. 0.000 001 g	lxxxxxv. 0.000 001
cp. 0.000 001 g	lxxxxxvi. 0.000 001
cq. 0.000 001 g	lxxxxxvii. 0.000 001
cr. 0.000 001 g	lxxxxxviii. 0.000 001
cs. 0.000 001 g	lxxxxxix. 0.000 001
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cu. 0.000 001 g	lxxxxxxi. 0.000 001
cv. 0.000 001 g	lxxxxxxii. 0.000 001
cw. 0.000 001 g	lxxxxxxiii. 0.000 001
cx. 0.000 001 g	lxxxxxxiv. 0.000 001
cy. 0.000 001 g	lxxxxxxv. 0.000 001
cz. 0.000 001 g	lxxxxxxvi. 0.000 001
ca. 0.000 001 g	lxxxxxxvii. 0.000 001
cb. 0.000 001 g	lxxxxxxviii. 0.000 001
cc. 0.000 001 g	lxxxxxxix. 0.000 001
cd. 0.000 001 g	lxxxxxxx. 0.000 001
ce. 0.000 001 g	lxxxxxxxi. 0.000 001
cf. 0.000 001 g	lxxxxxxxii. 0.000 001
cg. 0.000 001 g	lxxxxxxxiii. 0.000 001
ch. 0.000 001 g	lxxxxxxxiv. 0.000 001
ci. 0.000 001 g	lxxxxxxxv. 0.000 001
cj. 0.000 001 g	lxxxxxxxvi. 0.000 001
ck. 0.000 001 g	lxxxxxxxvii. 0.000 001
cl. 0.000 001 g	lxxxxxxxviii. 0.000 001
cm. 0.000 001 g	lxxxxxxxix. 0.000 001
cn. 0.000 001 g	lxxxxxxx. 0.000 001
co. 0.000 001 g	lxxxxxxxi. 0.000 001
cp. 0.000 001 g	lxxxxxxxii. 0.000 001
cq. 0.000 001 g	lxxxxxxxiii. 0.000 001
cr. 0.000 001 g	lxxxxxxxiv. 0.000 001
cs. 0.000 001 g	lxxxxxxxv. 0.000 001
ct. 0.000 001 g	lxxxxxxxvi. 0.000 001
cu. 0.000 001 g	lxxxxxxxvii. 0.000 001
cv. 0.000 001 g	lxxxxxxxviii. 0.000 001
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3 significant figures: 10,546 = 10,500 . 2 significant figures: 10,546 = 11,000 (because of the "5" the number increases by 1) 1 significant figure: 10,546 = 10,000 (this is not 11,000 because it only asked for 1 significant figure, which looks to the second digit place to see if it increases or stays the same. The second digit place holds a ... Example 1: $\log 5.43 \times 10^{10} = 10.735$ The number has 3 significant figures, but its log ends up with 5 significant figures, since the mantissa has 3 and the characteristic has 2. Example 2: $\log 2.7 \times 10^{-8} = -7.57$ The number has 2 significant figures, but its log ends up with 3 significant figures. Natural logarithms work in the same way: Rounding to 1, 2, & 3 Significant Figures. Whether it is rounding decimals or whole numbers to 1, 2, or 3 significant digits got high school students busy watching out for decimals followed by leading, captured, or trailing zeros and counting sig-figs from the Pacific or Atlantic side and round off as specified. Titration Calculations Worksheet # 4 . 1. In a titration 12.5 mL of 0.200 M NaOH is required to neutralize 10.0 mL of H 2 SO 4. Calculate the concentration ... End: 1.3 mol 0 mol 5.3 mol ... Scientific notation is a smart way of writing huge whole numbers and too small decimal numbers. This page contains worksheets based on rewriting whole numbers or decimals in scientific notation and rewriting scientific notation form to standard form. 13.01.2022 · 1.6 : Rounding to two significant figures yields an implied uncertainty of 1/16 or 6%, three times greater than that in the least-precisely known factor. This is a good illustration of how rounding can lead to the loss of information. 1.9E6: The "3.1" factor is ... example: Round to 3 significant figures: 2.3467 x 10 4 (Answer: 2.35 x 10 4) example: Round to 2 significant figures: 1.612 x 10 3 (Answer: 1.6 x 10 3) What happens if there is a 5? There is an arbitrary rule: If the number before the 5 is odd, round up. If ...

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