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Significant figures quiz with answers

Name: _____ Date: _____

Significant Figures Addition and Subtraction

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

- $35.6 + 56.27 =$ _____
- $4.337 + 84.7128 =$ _____
- $6.2 + 4.114 =$ _____
- $7.331 + 12.42 =$ _____
- $22.5085 + 22.14 + 4.265 =$ _____
- $88.480 + 7.113 + 6.5 =$ _____
- $48.835 - 9.1 =$ _____
- $16.221 - 8.28 =$ _____
- $101.12 - 98.7 =$ _____
- $13.7 + 25.466 =$ _____
- $45.758 - 33.22 =$ _____
- $19.6 - 8.72 =$ _____
- $23 + 16.4 + 22.0 =$ _____
- $24.5764 - 1.9833 =$ _____
- $8.31 + 7.2 + 9.4626 =$ _____
- $3.94 + 68.77 + 83.197 =$ _____
- $12.484 + 3.6 =$ _____
- $19.117 - 8.11 =$ _____
- $7.6924 + 9.6 - 4.888 =$ _____
- $19.8 - 8.75 + 11 =$ _____

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South Pasadena • AP Chemistry

Name: GROWN (KEY)

Period _____ Date / /

1. Matter and Measurement

- Which physical state of matter exhibits the greatest change in volume with changes in temperature or pressure?
a) solid
b) liquid
c) gas
d) plasma
Mostly expand
- According to the Kinetic Molecular Theory particles of a solid
a) are bound in a regular array and do not move.
b) float freely within an array occupying various positions relative to neighbors.
c) have no relationship to the microscopic structure of the solid.
d) vibrate back and forth but do not move past immediate neighbors.
e) float freely in the inside but do not move on the surface.

- Which temperature change is the smallest?
a) 10°C to 20°C
b) 10 K to 20°C
c) 10°F to 20°F
d) 10°F to 20°C
e) 10 K to 20 K
100 BP 211 of degrees are smaller than 100 C
- The number of significant figures in 0.06060×10^5 is
a) 2
b) 3
c) 4
d) 5
e) 6
- The number, three hundred and fifty thousand, written in scientific notation is best written as
a) 350
b) 3.5×10^5
c) 3.5×10^6
d) 3.50×10^5
e) 3.50×10^6
350,000 = 3.5 x 10^5 assume least # of digits significant
- The mass of a sample weighted on an electronic balance that is sensitive to $\pm 0.3\text{ mg}$ is 1.2300 g . The number of significant figures in this measurement is
a) 1
b) 2
c) 3
d) 4
e) 5
1.2300 = 1.2300g = 1.2300
- What is the numerical value of:
 $1.5\text{ cm} - 7.222 \times 10^{-1}\text{ cm}$?
a) 0.7778 cm
b) 0.778 cm
c) $7.072 \times 10^{-1}\text{ cm}$
d) 0.8 cm
e) 0.78 cm
1.5 cm - 0.7222 cm = 0.7778 cm = 0.8 cm

- What volume of a liquid having a density of 1.48 g/cm^3 is needed to supply 5.00 grams of the liquid?
a) 0.296 cm^3
b) 1.48 cm^3
c) 2.26 cm^3
d) 3.38 cm^3
e) 7.40 cm^3
5.00g / 1.48g = 3.38 cm^3
- The density of aluminum is 2.70 g/cm^3 . If a cube of aluminum weighs 13.5 grams , what is the length of the edge of the cube?
a) 5.00 cm
b) 1.71 cm
c) 1.25 cm
d) 0.312 cm
e) 0.200 cm
13.5g / 2.70g = 5.00 cm = 5.00 cm

Quiz & Worksheet - Similar Figures

1. Which of the following statements is true?
a) Similar figures are always the same size.
b) Similar figures are always the same color.
c) Similar figures are always the same shape.
d) None of these statements are true.

2. Which of the following statements is true?
a) Similar polygons have the same shape.
b) The ratios of corresponding sides of similar polygons are all equal.
c) A polygon is a two-dimensional shape with a minimum of three straight sides and three angles.
d) All of these are true statements.

3. Are the two triangles similar? If so, what is the ratio of their corresponding sides?
a) Yes, 1:4
b) No, 2:4
c) Yes, 1:6
d) No

ROUNDING DECIMALS CHALLENGE 5 ANSWERS

CHALLENGE A

- I am less than a half.
- If you round me to the nearest tenth, I round to 0.5.
- If you round me to 2 decimal places, I round up.
- My hundredths digit is odd.

Who am I?
0.536 0.432 0.356 0.62
0.551 0.487 0.512 0.464

CHALLENGE B

- I have more than 3 digits.
- My ones digit is odd and my tenths digit is even.
- If you round me to 2 decimal places, I round up.
- If you round me to the nearest tenth, I round down.

Who am I?
5.762 5.861 5.82 5.721
5.902 5.848 5.759 5.853

Significant figures quiz with answers.pdf

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