Name: Period: Seat#:	
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Give the number of significant figures in each of the following:

<b>2)</b> 34.20 lbs	<b>3)</b> 0.03 sec	<b>4)</b> 0.00420 g
<b>6)</b> 0.0300 ft.	<b>7)</b> 5.1 x 10 <sup>4</sup> kg	<b>8)</b> 0.48 m
<b>10)</b> 78323.01 g	<b>11)</b> 1.10 torr	<b>12)</b> 760 mm Hg
	<b>6)</b> 0.0300 ft.	<b>6)</b> 0.0300 ft. <b>7)</b> 5.1 x 10 <sup>4</sup> kg

Multiply each of the following, observing significant figure rules:

wuitiply each of the following, observing significan	
<b>13)</b> 17 m x 324 m =	<b>14)</b> 1.7 mm x 4294 mm =
<b>15)</b> 0.005 in x 8888 in =	<b>16)</b> 0.050 m x 102 m =
<b>17)</b> 0.424 in x .090 in =	<b>18)</b> 324000 cm x 12.00 cm =

Divide each of the following, observing significant figure rules:

Divide each of the following, observing significant	ngure rules.
<b>19)</b> 23.4 m ÷ 0.50 sec =	<b>20)</b> 12 miles ÷ 3.20 hours =
<b>21)</b> 0.960 g ÷ 1.51 moles =	<b>22)</b> 1200 m ÷ 12.12 sec =
21) 0.900 g ÷ 1.51 moles =	22) 1200 III ÷ 12.12 Sec =

Add or subtract each of the following, observing significant figure rules:

	<u> </u>	
<b>23)</b> 3.40 m + 0.022 m + 0.5 m	<b>24)</b> 102.45 g + 2.44 g + 1.9999 g	<b>25)</b> 102. cm + 3.14 cm + 5.9 cm
<b>26)</b> 42.306 m - 1.22 m	<b>27)</b> 14.33 g - 3.468 g	<b>28)</b> 234.1 cm – 62.04 cm

## Dougherty Valley HS Chemistry Significant Figures Practice 1

Work each of the following p	nrahlame ahe	arvina cianifican	t fiaura rulae:
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29) Three determinations were made of the percentage of oxygen in mercuric oxide. The results were 7.40% 7.43%, and 7.35%. What was the average percentage?
<b>30)</b> A rectangular solid measures 13.4 cm x 11.0 cm x 2.2 cm. Calculate the volume of the solid.
<b>31)</b> If the density of mercury is 13.6 g/ml, what is the mass in grams of 3426 ml of the liquid?
<b>32)</b> A copper cylinder is 12.0 cm in radius and has a height of 44.0 cm. If the density of copper is 8.90 g/cm <sup>3</sup> , calculate the mass in grams of the cylinder. Remember that the equation for volume is $v = \pi r^2 h$ (assume pi = 3.14)