

Significant Figures Worksheet

1. Determine the number of sig figs in the following examples:

a) 409.10 **5**

b) 305 **3**

c) 0.25 **2**

d) 0.4020 **4**

e) 0.00056030 **5**

f) 371 883 **6**

g) 308 000 **3**

h) 85.001 **5**

i) 2.0×10^2 **2**

j) 59.98 **4**

k) 0.00450 **3**

l) 4 500 **2**

m) 15.0 **3**

n) 0.50 **2**

o) 1 001 **4**

p) 10 000 **1**

q) 100 010 **5**

r) 0.060 **2**

s) 15.0500 **6**

t) 35 050 **4**

2. Multiplication and Division: Solve and out in the proper sig. fig.

a) 3030.0×290

$878\ 700 =$

$880\ 000$ or 8.8×10^5

b) $70 \div 120$

$0.583333 =$

0.6

c) $27.90 \div 4060$

$0.006871921 =$

0.00687

or 6.87×10^{-3}

d) $(9.008 \times 10^4)(6.5227 \times 10^7)$

$5.87564816 \times 10^{12} =$

5.876×10^{12}

e) 19.3×0.0024

$0.04632 =$

0.046

or 4.6×10^{-2}

f) $0.175 \div 4.0$

$0.04375 =$

0.044

or 4.4×10^{-2}

g) $4576.873 \div 0.00357$

$1282037.255 =$

1.28×10^6

h) $(1.839 \times 10^6)(4.65 \times 10^3)$

(1.296×10^{-2})

$6.598263885 \times 10^{11} =$

6.60×10^{11}