

MATH HANDBOOK TRANSPARENCY WORKSHEET**3****Significant Figures****Use with Appendix B,
Significant Figures**

1. For each of the measurements in the table below, determine if the underlined number is significant or not significant. Place a check mark in the appropriate box and in the box under the rule that you used to make your determination.

Measurement	Significant	Not Significant	Rule					
			1	2	3	4	5	
a. 3038 m	✓			✓				
b. 1.5 <u>6</u> 1 L	✓		✓					
c. 0. <u>0</u> 74 mm		✓					✓	
d. 505 <u>0</u> s		✓					✓	
e. 3. <u>0</u> 07 km	✓				✓			
f. 6.1 <u>0</u> °C	✓				✓			
g. 821. <u>0</u> g	✓		✓					
h. <u>0</u> .560 g		✓					✓	

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

a. 56 m 2

b. 1104 mL 4

c. 15 pairs infinite number

d. 0.20 mol 2

e. 105 000 mm 3

f. 6.02 L 3

g. 0.176 kPa 3

h. 819 000.0 g 7

i. 4.030 m³ 4

j. 0.005 42 s 3

k. 49 000 km 2

l. 7.81 kg 3

m. 7.01 m/s 3

n. 0.0021 m 2

o. 30 015 g 5

p. 90 km 1

q. 12.0 cm 3

r. 0.0305 kPa 3

s. 50 gross infinite number

t. 83.90 m/s² 4

u. 0.100 50 cg 5

v. 0.0510 kg 3

w. 6.12×10^5 mm 3

x. 4.01×10^2 s 3

y. $60\,000 \times 10^3$ g 1

z. 1.000×10^2 kPa 4