

# 8th Grade Pre-Algebra Section 4.4 Worksheet

1. Rewrite each in decimal or standard form.

BIG

a)  $3.79 \times 10^5$

3.79 000  
379,000

SMALL

b)  $2.5 \times 10^{-2}$

0.25  
0.025

BIG

c)  $8.44 \times 10^1$

8.44  
84.4

SMALL

b) 0.0602

0.0602

$6.02 \times 10^{-2}$

BIG

c) 998.653

998.653

$9.98653 \times 10^2$

SMALL

d)  $9.1187 \times 10^1$

9.1187

d) 0.007485

0.007485

$7.485 \times 10^{-3}$

BIG

e)  $7.26943 \times 10^8$

7.26943 000  
726,943,000

BIG

e) 22,078,600

22,078,600

$2.20786 \times 10^7$

BIG

f)  $1.0074 \times 10^{-6}$

0.0000010074  
0.000010074

f) 493.12

493.12

$4.9312 \times 10^2$

2. The mean distance of Neptune to the sun is 2,796,460,000 miles. Write this value in scientific notation.

2.796460000  
 $2.79646 \times 10^9$

4. The thickness of a red blood cell is approximately 0.0003125 inch. Rewrite this value in scientific notation.

SMALL

0.0003125

$3.125 \times 10^{-4}$