

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

**Scientific Notation**

**Are these in scientific notation?**

1.  $5.2 \times 10^3$

2.  $3.0 \times 10^6$

3.  $54.2 \times 10^4$

4.  $5.73 \times 10^8$

5.  $3 \times 10^3$

6.  $124 \times 10^4$

**Switch these numbers into standard form.**

7.  $6 \times 10^3$

8.  $4 \times 10^7$

9.  $1.43 \times 10^6$

10.  $5.26 \times 10^5$

11.  $5.70 \times 10^4$

12.  $4.86 \times 10^7$

**Switch these numbers into scientific notation accurate to two decimal places.**

13. 6,400

14. 10,050,112

15. 7,856

16. 521

17. 172,600,421

18. 42,951

**Write each number in scientific notation accurate to one decimal places.**

19. 5,800

20. 120,609,438

21. 45,900

22. 471,964

23. 1,452,984

24. 157,973

Name ANSWER KEY Period \_\_\_\_\_ Date \_\_\_\_\_

### Scientific Notation

#### Are these in scientific notation?

1.  $5.2 \times 10^3$   
**YES**

2.  $3.0 \times 10^6$   
**YES**

3.  $54.2 \times 10^4$   
**NO**

4.  $5.73 \times 10^8$   
**YES**

5.  $3 \times 10^3$   
**YES**

6.  $124 \times 10^4$   
**NO**

#### Switch these numbers into standard form.

7.  $6 \times 10^3$

6,000

8.  $4 \times 10^7$

40,000,000

9.  $1.43 \times 10^6$

1,430,000

10.  $5.26 \times 10^5$

526,000

11.  $5.70 \times 10^4$

57,000

12.  $4.86 \times 10^7$

8,600,000

#### Switch these numbers into scientific notation accurate to two decimal places.

13. 6, 400

$6.40 \times 10^3$

14. 10, 050, 112

$1.01 \times 10^7$

15. 7, 856

$7.86 \times 10^4$

16. 521

$5.21 \times 10^2$

17. 172, 600, 421

$1.73 \times 10^7$

18. 42, 951

$4.30 \times 10^4$

#### Write each number in scientific notation accurate to one decimal places.

19. 5, 800

$5.8 \times 10^3$

20. 120, 609, 438

$1.2 \times 10^8$

21. 45, 900

$4.6 \times 10^4$

22. 471, 964

$4.7 \times 10^5$

23. 1, 452, 984

$1.5 \times 10^6$

24. 157, 973

$1.6 \times 10^5$