

## Review Sheet: Scientific Notation

Date \_\_\_\_\_

**Write each number in scientific notation.**

1)  $60 \times 10^2$

2) 0.02

3) 30

4) 0.00007

5) 0.008

**Write each number in standard notation.**

6)  $4 \times 10^5$

7)  $2.07 \times 10^{-3}$

8)  $8.7 \times 10^5$

9)  $4.7 \times 10^1$

10)  $0.849 \times 10^{-2}$

**Simplify. Write each answer in scientific notation.**

11)  $(8.6 \times 10^0)(6.2 \times 10^1)$

12)  $(2.14 \times 10^6)(7.2 \times 10^2)$

13)  $(2 \times 10^4)(8.2 \times 10^3)$

14)  $(4.77 \times 10^{-4})(0.6 \times 10^{-1})$

15)  $(9.1 \times 10^{-1})(4.67 \times 10^1)$

16)  $(4.3 \times 10^2)(6.97 \times 10^5)$

17)  $(2.21 \times 10^5)(2.37 \times 10^2)$

18)  $(2.6 \times 10^{-3})(80 \times 10^5)$

19)  $\frac{7.4 \times 10^{-5}}{5.1 \times 10^4}$

20)  $\frac{4.9 \times 10^1}{7.7 \times 10^5}$

21)  $\frac{9.7 \times 10^6}{61.9 \times 10^{-4}}$

22)  $\frac{6.32 \times 10^4}{3.88 \times 10^2}$

23)  $\frac{8.95 \times 10^2}{20 \times 10^2}$

24)  $\frac{3.2 \times 10^{-4}}{1.58 \times 10^2}$

$$25) \frac{5.5 \times 10^{-1}}{3.6 \times 10^4}$$

$$26) \frac{3 \times 10^5}{4.6 \times 10^5}$$

$$27) (7.8 \times 10^{-2})^{-3}$$

$$28) (3.8 \times 10^3)^{-5}$$

$$29) (9.02 \times 10^1)^3$$

$$30) (6.1 \times 10^6)^{-2}$$

$$31) (2 \times 10^{-4})^5$$

$$32) (7 \times 10^2)^5$$

$$33) (30 \times 10^5)^5$$

$$34) (7 \times 10^{-6})^{-3}$$

## Answers to Review Sheet: Scientific Notation (ID: 1)

- |                            |                             |                            |                             |
|----------------------------|-----------------------------|----------------------------|-----------------------------|
| 1) $6 \times 10^3$         | 2) $2 \times 10^{-2}$       | 3) $3 \times 10^1$         | 4) $7 \times 10^{-5}$       |
| 5) $8 \times 10^{-3}$      | 6) 400000                   | 7) 0.00207                 | 8) 870000                   |
| 9) 47                      | 10) 0.00849                 | 11) $5.332 \times 10^2$    | 12) $1.541 \times 10^9$     |
| 13) $1.64 \times 10^8$     | 14) $2.862 \times 10^{-5}$  | 15) $4.25 \times 10^1$     | 16) $2.997 \times 10^8$     |
| 17) $5.238 \times 10^7$    | 18) $2.08 \times 10^4$      | 19) $1.451 \times 10^{-9}$ | 20) $6.364 \times 10^{-5}$  |
| 21) $1.567 \times 10^9$    | 22) $1.629 \times 10^2$     | 23) $4.475 \times 10^{-1}$ | 24) $2.025 \times 10^{-6}$  |
| 25) $1.528 \times 10^{-5}$ | 26) $6.522 \times 10^{-1}$  | 27) $2.107 \times 10^3$    | 28) $1.262 \times 10^{-18}$ |
| 29) $7.339 \times 10^5$    | 30) $2.687 \times 10^{-14}$ | 31) $3.2 \times 10^{-19}$  | 32) $1.681 \times 10^{14}$  |
| 33) $2.43 \times 10^{32}$  | 34) $2.915 \times 10^{15}$  |                            |                             |