



**Rewrite the number as a multiplication problem.**

- 1)  $9^4$
- 2)  $4^2$
- 3)  $4^3$
- 4)  $6^3$
- 5)  $8^3$

**Rewrite the multiplication problem in exponential notation.**

- 6)  $4 \times 4 \times 4 \times 4 \times 4$
- 7)  $9 \times 9$
- 8)  $4 \times 4$
- 9)  $3 \times 3 \times 3 \times 3$
- 10)  $5 \times 5 \times 5 \times 5 \times 5$

**Solve the problems.**

- 11)  $2^2$
- 12)  $8^3$
- 13)  $9^3$
- 14)  $6^2$
- 15)  $6^3$
- 16) What is 8 to the power of two?
- 17) What is 5 squared?
- 18) What is 2 to the power of three?
- 19) What is 3 cubed?
- 20) What is 7 to the power of two?

Classwork

Answers

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_
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**Answers**

1.  $9 \times 9 \times 9 \times 9$
2.  $4 \times 4$
3.  $4 \times 4 \times 4$
4.  $6 \times 6 \times 6$
5.  $8 \times 8 \times 8$
6.  $4^5$
7.  $9^2$
8.  $4^2$
9.  $3^4$
10.  $5^5$
11.  $4$
12.  $512$
13.  $729$
14.  $36$
15.  $216$
16.  $64$
17.  $25$
18.  $8$
19.  $27$
20.  $49$