



Puzzle Time

Why Did The 25-Watt Bulb Flunk Out Of School?

Write the letter of each answer in the box containing the exercise number.

Simplify the expression.

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|--|---|
| 1. $(8^2)^{1/3}$ | 2. $5^{3/4} \cdot 5^{1/2}$ |
| 3. $\left(\frac{64}{125}\right)^{1/3}$ | 4. $(2^4 \cdot 6^4)^{-1/4}$ |
| 5. $(3^{2/3} \cdot 5^{1/4})^6$ | 6. $\frac{4}{4^{1/2}}$ |
| 7. $\sqrt[3]{27} \cdot \sqrt[3]{729}$ | 8. $\frac{\sqrt[4]{32}}{\sqrt[4]{256}}$ |
| 9. $\frac{\sqrt[3]{24} \cdot \sqrt[3]{12}}{\sqrt[3]{2}}$ | 10. $\frac{25^{1/6} \cdot 25^{1/3}}{5^{6/5}}$ |
| 11. $\frac{4}{8 - \sqrt{3}}$ | 12. $10\sqrt[4]{5} - 3\sqrt[4]{5}$ |
| 13. $12(4^{3/4}) + 5(4^{3/4})$ | 14. $\sqrt[5]{3^5}$ |
| 15. $(3^{2/5})^{1/2}$ | 16. $-3(2^{1/5}) - 2(2^{1/5})$ |

Answers

E. $5^{5/4}$	W. $\frac{4}{5}$
H. 4	A. $\frac{1}{12}$
N. 2	S. $81 \cdot 5^{3/2}$
H. $3^{1/5} 3^{1/5}$	T. $\left(\frac{1}{8}\right)^{1/4}$
S. $2\sqrt[3]{18}$	O. 27
O. $\frac{1}{5^{1/5}}$	R. $7\sqrt[4]{5}$
G. 3	I. $17(4^{3/4})$
T. $-5(2^{1/5})$	B. $\frac{32 + 4\sqrt{3}}{61}$

1	2		3	4	5		6	7	8		9	10		11	12	13	14	15	16
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