

What Did Bimbo Airhead Reply When Asked, "What Is the Difference Between Ignorance and Apathy?"

Simplify each expression below. Assume that all variables represent nonnegative numbers. Cross out the box that contains your answer. When you finish, print the letters from the remaining boxes in the spaces at the bottom of the page.

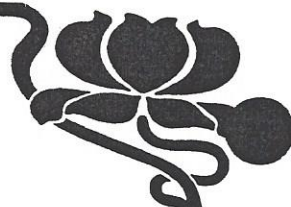
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|----------------------------------|--------------------------------------|--------------------------------------|---|
| ① $\sqrt{3} \cdot \sqrt{15}$ | ⑤ $-5\sqrt{3} \cdot 4\sqrt{6}$ | ⑨ $\frac{\sqrt{5}}{\sqrt{40}}$ | ⑬ $3\sqrt{2n^3t^5} \cdot 5\sqrt{14n^5}$ |
| ② $\sqrt{10x} \cdot \sqrt{5x^3}$ | ⑥ $\sqrt{2xy^2} \cdot \sqrt{10xy}$ | ⑩ $\sqrt{3nt^5} \cdot \sqrt{12n^2t}$ | ⑭ $7\sqrt{12} - 5\sqrt{27} + 6\sqrt{300}$ |
| ③ $7\sqrt{3} + \sqrt{48}$ | ⑦ $8\sqrt{x} + 3\sqrt{y} - \sqrt{x}$ | ⑪ $5\sqrt{24} - 8\sqrt{150}$ | ⑮ $4\sqrt{44} + 2\sqrt{22} + 9\sqrt{99}$ |
| ④ $\frac{24}{\sqrt{6}}$ | ⑧ $\frac{12}{\sqrt{30}}$ | ⑫ $\frac{4\sqrt{10}}{\sqrt{6}}$ | ⑯ $\frac{3\sqrt{2}}{2\sqrt{75}}$ |

Answers for exercises 1–8:

TH	IDO	ERE	THE	ONE	WA	NTK	ISS
$2xy\sqrt{5y}$	$\frac{3\sqrt{30}}{10}$	$4\sqrt{6}$	$\frac{2\sqrt{30}}{5}$	$30n^4t^2\sqrt{7t}$	$-30\sqrt{6}$	$\frac{2\sqrt{30}}{3}$	$\frac{\sqrt{6}}{10}$
SO	DUM	NOW	BAS	AN	AS	AYS	DID
$7\sqrt{x} + 3\sqrt{y}$	$11\sqrt{3}$	$9\sqrt{2xy}$	$3\sqrt{5}$	$24n^2t^3\sqrt{2t}$	$6nt^3\sqrt{n}$	$59\sqrt{3}$	$42\sqrt{11}$
ON	TOP	IT	TCA	USE	ME	RE	ST
$-30\sqrt{3}$	$-60\sqrt{2}$	$5x^2\sqrt{2}$	$9\sqrt{6}$	$35\sqrt{11} + 2\sqrt{22}$	$\frac{\sqrt{2}}{4}$	$36\sqrt{3}$	$\frac{4\sqrt{15}}{3}$

Answers for exercises 9–16:

Why Was the Pail Pale?



Simplify each expression. Find your answer below and notice the letter next to it. Write this letter in each box containing the number of that exercise.

① $7\sqrt{2} + \sqrt{50} - 2\sqrt{18}$

② $\sqrt{7} + \frac{\sqrt{7}}{2}$

③ $\sqrt{3} + \sqrt{\frac{1}{3}}$

④ $3\sqrt{\frac{1}{2}} + \sqrt{2}$

⑤ $2\sqrt{5} + 3\sqrt{\frac{1}{5}}$

⑥ $10\sqrt{\frac{3}{5}} - 24\sqrt{\frac{5}{3}}$

⑦ $\sqrt{\frac{3}{2}} + 3\sqrt{\frac{1}{6}}$

⑧ $5\sqrt{\frac{1}{2}} - 2\sqrt{\frac{1}{8}}$

⑨ $\sqrt{\frac{3}{8}} + \sqrt{\frac{2}{3}}$

⑩ $\sqrt{\frac{3}{4}} + \sqrt{12}$

⑪ $7\sqrt{10} - 2\sqrt{90} + 4\sqrt{\frac{1}{10}}$

⑫ $3\sqrt{\frac{2}{9}} + \frac{1}{2}\sqrt{32} + \sqrt{\frac{9}{8}}$

Answers:

Ⓒ $\frac{5\sqrt{2}}{2}$

Ⓐ $\frac{4\sqrt{3}}{3}$

Ⓓ $\frac{7\sqrt{2}}{3}$

Ⓔ $\frac{13\sqrt{5}}{5}$

Ⓔ $6\sqrt{2}$

Ⓓ $9\sqrt{5}$

Ⓓ $-6\sqrt{15}$

Ⓤ $\frac{3\sqrt{7}}{2}$

Answers:

Ⓕ $\frac{7\sqrt{2}}{2}$

Ⓚ $\frac{5\sqrt{3}}{2}$

Ⓓ $\frac{7\sqrt{6}}{12}$

Ⓕ $3\sqrt{10}$

Ⓦ $\frac{15\sqrt{2}}{4}$

Ⓛ $\frac{7\sqrt{10}}{5}$

Ⓛ $\sqrt{6}$

Ⓑ $2\sqrt{2}$

7	9	12	3	1	6	9	3	12	5	11	11	8	2	4	10	5	9
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