

# 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.

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

Answers for exercises 1–8:

TH	IDO	ERE	THE
$2xy\sqrt{5y}$	$\frac{3\sqrt{30}}{10}$	$4\sqrt{6}$	$\frac{2\sqrt{30}}{5}$
SO	DUM	NOW	BAS
$7\sqrt{x} + 3\sqrt{y}$	$11\sqrt{3}$	$9\sqrt{2xy}$	$3\sqrt{5}$
ON	TOP	IT	TCA
$-30\sqrt{3}$	$-60\sqrt{2}$	$5x^2\sqrt{2}$	$9\sqrt{6}$

Answers for exercises 9–16:

ONE	WA	NTK	ISS
$30n^4t^2\sqrt{7t}$	$-30\sqrt{6}$	$\frac{2\sqrt{30}}{3}$	$\frac{\sqrt{6}}{10}$
AN	AS	AYS	DID
$24n^2t^3\sqrt{2t}$	$6nt^3\sqrt{n}$	$59\sqrt{3}$	$42\sqrt{11}$
USE	ME	RE	ST
$35\sqrt{11} + 2\sqrt{22}$	$\frac{\sqrt{2}}{4}$	$36\sqrt{3}$	$\frac{4\sqrt{15}}{3}$