

Did you hear about...

A	B	C	D	E	F	G	H
I	J	K	L	M	N	O	P
							?

Answers A–H:

$\sqrt{11}$	TO
$\frac{\sqrt{5}}{2}$	WAS
$\frac{\sqrt{2}}{6}$	HUG
$\frac{2\sqrt{10}}{5}$	TRIED
$4\sqrt{5}$	SAD
$\frac{5\sqrt{3}}{3}$	THE
$\frac{3\sqrt{5}}{10}$	BIG
$\frac{\sqrt{6}}{2}$	WHO
$\frac{\sqrt{3}}{2}$	KISS
$\frac{2\sqrt{7}}{7}$	VERY
$7\sqrt{2}$	GUY
$\frac{2\sqrt{6}}{3}$	GIRL

Rationalize the denominator and simplify each expression below. Find your answer in the adjacent answer column and notice the word next to it. Write this word in the box containing the letter of that exercise. Keep working and you will hear about a mistake.

- | | |
|----------------------------|-----------------------------------|
| (A) $\frac{5}{\sqrt{3}}$ | (I) $\frac{30}{\sqrt{18}}$ |
| (B) $\frac{2}{\sqrt{7}}$ | (J) $\frac{8}{\sqrt{20}}$ |
| (C) $\frac{20}{\sqrt{5}}$ | (K) $\frac{9}{2\sqrt{45}}$ |
| (D) $\frac{14}{\sqrt{2}}$ | (L) $\frac{\sqrt{7}}{\sqrt{3}}$ |
| (E) $\frac{3}{\sqrt{6}}$ | (M) $\frac{\sqrt{5}}{\sqrt{10}}$ |
| (F) $\frac{4}{\sqrt{10}}$ | (N) $\frac{3\sqrt{6}}{\sqrt{2}}$ |
| (G) $\frac{11}{\sqrt{11}}$ | (O) $\frac{\sqrt{3}}{2\sqrt{6}}$ |
| (H) $\frac{3}{\sqrt{12}}$ | (P) $\frac{2\sqrt{3}}{\sqrt{15}}$ |

Answers I–P:

$\frac{3\sqrt{2}}{4}$	BUT
$\frac{\sqrt{2}}{4}$	AND
$\frac{\sqrt{21}}{3}$	IN
$\frac{4\sqrt{5}}{5}$	GIRL
$\frac{6\sqrt{2}}{5}$	LOST
$3\sqrt{3}$	FOG
$\frac{3\sqrt{5}}{10}$	FRIEND
$\frac{\sqrt{2}}{2}$	THE
$5\sqrt{2}$	HIS
$\frac{2\sqrt{2}}{5}$	A
$\frac{2\sqrt{5}}{5}$	MIST
$\frac{9\sqrt{3}}{10}$	TODAY

What Do You Call a Group of Factory Foremen Who Sing While Drinking Tab Cola and Eating Crab Apples ?

Simplify each expression below. Assume that all variables represent nonnegative numbers. Find your answer in the corresponding answer column. Write the letter of the exercise in the box that contains the number of the answer.

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|---------------------------------------|---------------------|---|--------------------------|
| (E) $\sqrt{5} \cdot \sqrt{3}$ | (7) $2x^2\sqrt{6}$ | (N) $5\sqrt{2} \cdot 4\sqrt{3}$ | (25) $30\sqrt{2}$ |
| (H) $\sqrt{6} \cdot \sqrt{2}$ | (2) $10\sqrt{2}$ | (B) $-7\sqrt{3} \cdot 2\sqrt{10}$ | (11) $5a^2\sqrt{3b}$ |
| (O) $\sqrt{3} \cdot \sqrt{6}$ | (3) $12x^5$ | (I) $2\sqrt{6} \cdot 5\sqrt{3}$ | (8) $-14\sqrt{15}$ |
| (A) $\sqrt{5} \cdot \sqrt{10}$ | (9) $\sqrt{15}$ | (A) $4\sqrt{10} (-3\sqrt{2})$ | (4) $36ab\sqrt{6b}$ |
| (R) $\sqrt{27} \cdot \sqrt{3}$ | (12) $x\sqrt{6}$ | (R) $2\sqrt{8} \cdot \sqrt{18}$ | (17) $-24\sqrt{5}$ |
| (H) $\sqrt{10} \cdot \sqrt{20}$ | (5) $3\sqrt{2}$ | (L) $-10\sqrt{3} (-2\sqrt{21})$ | (15) $18ab$ |
| (E) $\sqrt{90} \cdot \sqrt{40}$ | (1) $3x^2\sqrt{10}$ | (M) $-\sqrt{6} \cdot 7\sqrt{10}$ | (22) $40a^2b^4\sqrt{6a}$ |
| (A) $\sqrt{2x} \cdot \sqrt{3x}$ | (23) $2\sqrt{3}$ | (N) $3\sqrt{ab} \cdot 6\sqrt{ab}$ | (6) 24 |
| (D) $\sqrt{6x} \cdot \sqrt{2x}$ | (26) 9 | (P) $\sqrt{2ab^2} \cdot \sqrt{14ab^2}$ | (10) $20\sqrt{6}$ |
| (T) $\sqrt{30x^2} \cdot \sqrt{3x^2}$ | (21) 60 | (T) $-\sqrt{15a^2b} (-\sqrt{5a^2})$ | (19) $2ab^2\sqrt{7}$ |
| (E) $\sqrt{3x} \cdot \sqrt{8x^3}$ | (18) $20x\sqrt{x}$ | (O) $\sqrt{8ab^2} (-\sqrt{10a^3b^4})$ | (13) $-14\sqrt{30}$ |
| (P) $\sqrt{40x^2} \cdot \sqrt{10x}$ | (14) $5\sqrt{2}$ | (F) $2\sqrt{18a^2b} \cdot 6\sqrt{3b^2}$ | (24) $-4a^2b^3\sqrt{5}$ |
| (E) $\sqrt{12x^5} \cdot \sqrt{12x^5}$ | (16) $2x\sqrt{3}$ | (C) $5\sqrt{2a^3b^8} \cdot 4\sqrt{12a^2}$ | (20) $60\sqrt{7}$ |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
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