



Why Didn't Krok Like to Go Sailing With the Baseball Uniform Designer?



Simplify each expression below and find your answer in the corresponding answer column. Write the letter of the exercise in the box that contains the number of the answer.

- L $\sqrt{8} = \sqrt{4 \cdot 2} = 2\sqrt{2}$
- I $\sqrt{45} = \sqrt{9 \cdot 5} = 3\sqrt{5}$
- A $\sqrt{50} = \sqrt{25 \cdot 2} = 5\sqrt{2}$
- T $\sqrt{12} = \sqrt{4 \cdot 3} = 2\sqrt{3}$
- O $\sqrt{98} = \sqrt{49 \cdot 2} = 7\sqrt{2}$
- S $\sqrt{48} = \sqrt{16 \cdot 3} = 4\sqrt{3}$
- E $\sqrt{125} = \sqrt{25 \cdot 5} = 5\sqrt{5}$
- A $\sqrt{20} = 2\sqrt{5}$
- S $\sqrt{72} = 6\sqrt{2}$
- Y $\sqrt{63} = 3\sqrt{7}$
- E $\sqrt{144} = 12$
- W $\sqrt{32} = 4\sqrt{2}$
- D $\sqrt{75} = 5\sqrt{3}$
- A $\sqrt{200} = 10\sqrt{2}$

- 18 $7\sqrt{2}$
- 14 $5\sqrt{5}$
- 12 $2\sqrt{2}$
- 4 $5\sqrt{2}$
- 28 $4\sqrt{3}$
- 20 $2\sqrt{3}$
- 25 $3\sqrt{5}$
- 8 $3\sqrt{7}$
- 1 $6\sqrt{2}$
- 7 $10\sqrt{2}$
- 6 $4\sqrt{2}$
- 22 $2\sqrt{5}$
- 27 12
- 15 $5\sqrt{3}$

- S $5\sqrt{18} = 5(3\sqrt{2}) = 15\sqrt{2}$
- U $3\sqrt{28} = 3(2\sqrt{7}) = 6\sqrt{7}$
- A $2\sqrt{1000} = 2(10\sqrt{10}) = 20\sqrt{10}$
- P $\sqrt{1,000,000} = 1000$
- E $3\sqrt{128} = 3\sqrt{64 \cdot 2} = 24\sqrt{2}$
- K $8\sqrt{27} = 8\sqrt{9 \cdot 3} = 24\sqrt{3}$
- L $4\sqrt{80} = 4\sqrt{16 \cdot 5} = 16\sqrt{5}$
- H $-3\sqrt{54} = -3\sqrt{9 \cdot 6} = -9\sqrt{6}$
- A $-7\sqrt{40} = -7\sqrt{4 \cdot 10} = -14\sqrt{10}$
- B $-8\sqrt{121} = -8(11) = -88$
- S $2\sqrt{500} = 2\sqrt{100 \cdot 5} = 20\sqrt{5}$
- T $-4\sqrt{24} = -4\sqrt{4 \cdot 6} = -8\sqrt{6}$
- Z $3\sqrt{175} = 3\sqrt{25 \cdot 7} = 15\sqrt{7}$
- C $5\sqrt{108} = 5\sqrt{36 \cdot 3} = 30\sqrt{3}$
- 19 $6\sqrt{7}$
- 13 $24\sqrt{3}$
- 3 $24\sqrt{2}$
- 9 $15\sqrt{2}$
- 5 $16\sqrt{5}$
- 23 1000
- 16 $20\sqrt{10}$
- 10 $-8\sqrt{6}$
- 21 $30\sqrt{3}$
- 11 $-14\sqrt{10}$
- 24 $20\sqrt{5}$
- 26 $15\sqrt{7}$
- 2 $-9\sqrt{6}$
- 17 -88

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 27 | 28 |
| S | H | E | A | L | W | A | Y | S | T | A | L | K | E | D | A | B | O | U | T | C | A | P | S | I | Z | E | S |

OBJECTIVE 3-d: To simplify square roots of numbers that have perfect square factors.