

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:

Ⓕ $\frac{7\sqrt{2}}{2}$

Ⓚ $\frac{5\sqrt{3}}{2}$

Ⓓ $\frac{7\sqrt{6}}{12}$

Ⓕ $3\sqrt{10}$

Ⓖ $\frac{15\sqrt{2}}{4}$

Ⓛ $\frac{7\sqrt{10}}{5}$

Ⓘ $\sqrt{6}$

Ⓑ $2\sqrt{2}$

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