

Worksheet 2.3 Simplifying radicals part

Simplify.

1) $\sqrt{6} + \sqrt{24} + \sqrt{12}$ _____

3) $\sqrt{8} + \sqrt{6} + \sqrt{6}$ _____

5) $\sqrt{45} + \sqrt{6} + \sqrt{5}$ _____

7) $-3\sqrt{3} - 3\sqrt{3} - 2\sqrt{5}$ _____

9) $-2\sqrt{54} - 3\sqrt{27} + 2\sqrt{54}$ _____

11) $\sqrt{392xy^2z}$ _____

13) $\sqrt{48m^2n^2p^2}$ _____

15) $\sqrt{36m^4n^3p}$ _____

17) $\sqrt{320mp^4q}$ _____

19) $\sqrt{8x^2y^2z^3}$ _____

Drag and drop the answers next to each question.

$2\sqrt{2} + 3\sqrt{6}$ $2\sqrt{3} + 3\sqrt{2}$ $2\sqrt{3} + 3\sqrt{6}$

$2\sqrt{2} + 2\sqrt{6}$ $5\sqrt{3}$ $\sqrt{2} + 2\sqrt{6}$

$4\sqrt{5} + 2\sqrt{6}$ $4\sqrt{5} + \sqrt{6}$ $2\sqrt{2} + 4\sqrt{5}$

$6\sqrt{3} - 2\sqrt{5}$ $-6\sqrt{3} - 2\sqrt{5}$ $-\sqrt{6}$

$9\sqrt{3}$ $-9\sqrt{3}$ $-6\sqrt{2} + 4\sqrt{5}$

$14y\sqrt{2xz}$ $14xyz\sqrt{2}$ $14xy\sqrt{2z}$

$4mn\sqrt{3p}$ $4mnp\sqrt{3}$ $3mnp\sqrt{4}$

$6m^2n\sqrt{np}$ $6mn^2\sqrt{np}$ $6mn\sqrt{p}$

$8p^2\sqrt{5mq}$ $8p\sqrt{5mq}$ $8pq\sqrt{5m}$

$2xz\sqrt{2z}$ $2xyz\sqrt{2z}$ $2xyz\sqrt{z}$

