MA90 Exercises for section 8.3   Simplified Form for Radicals

Numeric Response

1. Put the radical expression into simplified form.

$$\sqrt{\frac{72}{2}}$$

2. Put the radical expression into simplified form.

$$\frac{6\sqrt{28}}{6\sqrt{7}}$$

Short Answer

1. Put the radical expression into simplified form.

$$\sqrt{\frac{1}{6}}$$

2. Put the radical expression into simplified form.

$$\sqrt{\frac{7}{2}}$$

3. Put the radical expression into simplified form.

$$\sqrt{\frac{12}{7}}$$

4. Put the radical expression into simplified form.

$$\frac{\sqrt{35}}{\sqrt{5}}$$

5. Put the radical expression into simplified form.

$$\frac{6\sqrt{22}}{30\sqrt{2}}$$

6. Put the radical expression into simplified form. Assume the variables represent positive numbers.

$$\sqrt{\frac{10x^2y^2}{5}}$$

.

7. Put the radical expression into simplified form. Assume the variables represent positive numbers.

$$\sqrt{\frac{7x^2y}{3}}$$

.

8. Put the radical expression into simplified form. Assume the variable represents a positive number.

$$\sqrt{\frac{108a^5}{7}}$$

.

9. Put the radical expression into simplified form. Assume the variables represent positive numbers.

$$\sqrt{\frac{20x^2y^3}{3}}$$

.

10. Put the radical expression into simplified form. Assume the variable represents a positive number.

$$\frac{7\sqrt{45x^4}}{\sqrt{5x}}$$

.

11. Put the radical expression into simplified form.

$$\sqrt[3]{\frac{1}{3}}$$

.

12. Put the radical expression into simplified form.

$$\sqrt[3]{\frac{7}{2}}$$

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Answer Section

NUMERIC RESPONSE

    1. ANS: 6

        PTS: 1
    2. ANS: 2

        PTS: 1

SHORT ANSWER

    1. ANS:
$$\frac{\sqrt{6}}{6}$$

        PTS: 1
    2. ANS:
$$\frac{\sqrt{14}}{2}$$

        PTS: 1
    3. ANS:
$$\frac{2\sqrt{21}}{7}$$

        PTS: 1
    4. ANS:
$$\sqrt{7}$$

        PTS: 1
    5. ANS:
$$\frac{\sqrt{11}}{5}$$

        PTS: 1
    6. ANS:
$$x \cdot y \cdot \sqrt{2}$$

        PTS: 1

7. ANS:

$$\frac{x \cdot \sqrt{21y}}{3}$$

PTS: 1

8. ANS:

$$\frac{6a^2 \cdot \sqrt{21a}}{7}$$

PTS: 1

9. ANS:

$$\frac{2x \cdot y \cdot \sqrt{15y}}{3}$$

PTS: 1

10. ANS:

$$21x \cdot \sqrt{x}$$

PTS: 1

11. ANS:

$$\frac{\sqrt[3]{9}}{3}$$

PTS: 1

12. ANS:

$$\frac{\sqrt[3]{28}}{2}$$

PTS: 1

2