Name

Radicals - Cube - Simplify From Cubed Factors, Values and Variables, Radical Remaining

1 Simplify the radical

$$\sqrt[3]{2^3 \cdot 3 \cdot x^3 \cdot x}$$

A	B	C	D	E
$x^3\sqrt[3]{4x^2}$	$2x\sqrt[3]{3x}$	$x\sqrt[3]{4x^2}$	$2x^2\sqrt[3]{6x}$	$4x\sqrt[3]{2x}$

2 Simplify the radical

$$\sqrt[3]{2^3 \cdot 5 \cdot m}$$

A	B	C	D	E
$2\sqrt[3]{3m}$	$2\sqrt[3]{5m}$	$3\sqrt[3]{5m}$	$\sqrt[3]{7m^2}$	$\sqrt[3]{2m}$

3 Simplify the radical

$$\sqrt[3]{2^3 \cdot 2 \cdot n^3 \cdot n}$$

A	B	C	D	E
$n^3\sqrt[3]{n}$	$5n\sqrt[3]{4n^2}$	$4n^2\sqrt[3]{n}$	$2n\sqrt[3]{2n}$	$2n\sqrt[3]{3n^3}$

4 Simplify the radical

$$\sqrt[3]{2^3 \cdot 5 \cdot q^3 \cdot q}$$

A	B	C	D	E
$q\sqrt[3]{3q^2}$	$4q\sqrt[3]{7q}$	$3q^2\sqrt[3]{2q}$	$2q\sqrt[3]{5q}$	$3q\sqrt[3]{q}$

5 Simplify the radical

$$\sqrt[3]{2^3 \cdot 2^3 \cdot 3 \cdot x^3}$$

A	B	C	D	E
$5x\sqrt[3]{5}$	$3x^2\sqrt[3]{6}$	$7x\sqrt[3]{2}$	$2x\sqrt[3]{2}$	$4x\sqrt[3]{3}$

6 Simplify the radical

$$\sqrt[3]{5^3 \cdot 5 \cdot q}$$

A	B	C	D
$2\sqrt[3]{2q}$	$\sqrt[3]{2q}$	$\sqrt[3]{5q}$	$5\sqrt[3]{5q}$

7 Simplify the radical

$$\sqrt[3]{2^3 \cdot 2^3 \cdot 11 \cdot m}$$

A	B	C	D	E
$2\sqrt[3]{13m^2}$	$4\sqrt[3]{11m}$	$4\sqrt[3]{11m^3}$	$6\sqrt[3]{8m}$	$6\sqrt[3]{7m^2}$

8 Simplify the radical

$$\sqrt[3]{2 \cdot 5^3 \cdot m^3 \cdot m^2}$$

A	B
$m\sqrt[3]{3m}$	$7m^3\sqrt[3]{m^3}$
C	D
$4m\sqrt[3]{m}$	$5m\sqrt[3]{2m^2}$