



# Answer Key

## Math Worksheet (1) Square, cubes and roots

Q1. Workout:

a) $7^3 =$ $7 \times 7 \times 7 =$ <span style="border: 1px solid black; padding: 2px;">343</span>	b) $8^2 =$ $8 \times 8 =$ <span style="border: 1px solid black; padding: 2px;">64</span>	c) $13^2 =$ $13 \times 13 =$ <span style="border: 1px solid black; padding: 2px;">169</span>
d) $3.3^2 =$ $3.3 \times 3.3 =$ <span style="border: 1px solid black; padding: 2px;">10.89</span>	e) $0.4^3 =$ $0.4 \times 0.4 \times 0.4 =$ <span style="border: 1px solid black; padding: 2px;">0.064</span>	f) $(-5)^2 =$ $-5 \times -5 =$ <span style="border: 1px solid black; padding: 2px;">25</span>
g) $(-1.4)^2 =$ $-1.4 \times -1.4 =$ <span style="border: 1px solid black; padding: 2px;">1.96</span>	h) $(-0.6)^3 =$ $-0.6 \times -0.6 \times -0.6 =$ <span style="border: 1px solid black; padding: 2px;">-0.216</span>	i) $(-2.4)^2 =$ $-2.4 \times -2.4 \times -2.4 =$ <span style="border: 1px solid black; padding: 2px;">-13.824</span>

Q2. Workout:

a) $\sqrt{64} =$ <span style="border: 1px solid black; padding: 2px;">8</span>	b) $\sqrt{81} =$ <span style="border: 1px solid black; padding: 2px;">9</span>	c) $\sqrt{196} =$ <span style="border: 1px solid black; padding: 2px;">14</span>
d) $\sqrt{400} =$ <span style="border: 1px solid black; padding: 2px;">20</span>	e) $\sqrt[3]{125} =$ <span style="border: 1px solid black; padding: 2px;">5</span>	f) $\sqrt[3]{-1000} =$ <span style="border: 1px solid black; padding: 2px;">-10</span>
g) $\sqrt[3]{343} =$ <span style="border: 1px solid black; padding: 2px;">7</span>	h) $\sqrt[3]{-729} =$ <span style="border: 1px solid black; padding: 2px;">-9</span>	i) $\sqrt[3]{-8} =$ <span style="border: 1px solid black; padding: 2px;">-2</span>



Q3: workout, show your work:

a) $\sqrt{\frac{81}{100}} = \frac{9}{10}$	b) $\sqrt{\frac{25}{49}} = \frac{5}{7}$	c) $\sqrt{\frac{121}{144}} = \frac{11}{12}$
d) $\sqrt{\frac{100}{225}} = \frac{10}{15} = \frac{2}{3}$	e) $\sqrt{\frac{169}{324}} = \frac{13}{18}$	f) $\sqrt{0.09} = \sqrt{\frac{9}{100}} = \frac{3}{10} = 0.3$
g) $\sqrt{0.25} = \sqrt{\frac{25}{100}} = \frac{5}{10} = 0.5$	h) $\sqrt{0.81} = \sqrt{\frac{81}{100}} = \frac{9}{10} = 0.9$	i) $\sqrt{1.96} = \sqrt{1\frac{96}{100}} = \sqrt{\frac{196}{100}} = \frac{14}{10} = 1.4$
j) $\sqrt{2.25} = \sqrt{2\frac{25}{100}} = \sqrt{\frac{225}{100}} = \frac{15}{10} = 1.5$	k) $\sqrt{1.21} = \sqrt{1\frac{21}{100}} = \sqrt{\frac{121}{100}} = \frac{11}{10} = 1.1$	l) $\sqrt{0.04} = \sqrt{\frac{4}{100}} = \frac{2}{10} = 0.2$
m) $\sqrt[3]{\frac{8}{64}} = \frac{2}{4} = \frac{1}{2}$	n) $\sqrt[3]{\frac{27}{64}} = \frac{3}{4}$	o) $\sqrt[3]{\frac{1}{125}} = \frac{1}{5}$
p) $\sqrt[3]{-\frac{8}{216}} = -\frac{2}{6} = -\frac{1}{3}$	q) $\sqrt[3]{\frac{512}{1331}} = \frac{8}{11}$	r) $\sqrt[3]{0.008} = \sqrt[3]{\frac{8}{1000}} = \frac{2}{10} = 0.2$
s) $\sqrt[3]{0.064} = \sqrt[3]{\frac{64}{1000}} = \frac{4}{10} = 0.4$	t) $\sqrt[3]{-0.125} = \sqrt[3]{-\frac{125}{1000}} = -\frac{5}{10} = -0.5$	u) $\sqrt[3]{-0.216} = \sqrt[3]{-\frac{216}{1000}} = -\frac{6}{10} = -0.6$