

Estimating Powers and Roots *ramp up*

ANSWERS

a Estimate $\sqrt{150}$ to the nearest whole number 12 a root past 100	b Between which two whole numbers does $\sqrt[3]{-50}$ lie? -4 and -3 a negative cube root	c Which is larger, $\sqrt{50}$ or 7.1? 7.1 comparing by squaring	d Estimate the value of 0.49^3 about 0.125 a power of a decimal below 1
e Estimate $\sqrt{48} + \sqrt{99}$ about 17 a sum of two roots	f Estimate $\sqrt{3.1^2 + 3.9^2}$ about 5 the root of a sum	g Estimate $\sqrt{80} \div \sqrt{4.1}$ about 4.5 a quotient of roots	h Estimate $\sqrt{200}$ to 1 decimal place 14.1 a root past 100 to 1 dp
i Estimate $\sqrt[3]{30}$ to 1 decimal place 3.1 a cube root to 1 dp	j Find the largest whole number n with $\sqrt{n} < 8.5$ 72 a root bound turned round	k Estimate $\sqrt{0.02}$ to 2 decimal places 0.14 the root of a small decimal	l Estimate $8.1^{\frac{2}{3}}$ about 4 estimating a fractional power

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