

Estimating Powers and Roots *ramp up*

ANSWERS

a $\sqrt{40}$ lies between which two whole numbers? <u>6 and 7</u> square root between two integers	b $\sqrt[3]{40}$ lies between which two whole numbers? <u>3 and 4</u> cube root between two integers	c Estimate $\sqrt{58}$ to the nearest whole number <u>8</u> the nearer square	d Estimate $\sqrt{27}$ to 1 decimal place <u>5.2</u> a square root to one decimal place
e Estimate $\sqrt[3]{70}$ to the nearest whole number <u>4</u> cube root to the nearest whole	f Estimate $\sqrt{5000}$ to the nearest whole number <u>71</u> the root of a large number	g Estimate $\sqrt{0.5}$ to 1 decimal place <u>0.7</u> a root of a number less than 1	h Estimate 2.9^3 <u>about 27</u> estimating a power
i $\sqrt[5]{40}$ lies between which two whole numbers? <u>2 and 3</u> higher root between two integers	j Which is larger: $\sqrt{35}$ or $\sqrt[3]{250}$? <u>$\sqrt[3]{250}$</u> a square root against a cube root	k Estimate $\sqrt{7.9 \times 2.1}$ <u>about 4</u> estimating the root of a calculation	l How many whole numbers n have $4 < \sqrt{n} < 5$? <u>8</u> the root turned round

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