Estimating roots

Exit ticket ANSWERS Name _____

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9 and 10

2. Estimate $\sqrt{42}$ to 1 decimal place.

6.5

3. Estimate $\sqrt[3]{60}$ to 1 decimal place.

3.9

The Maths Habit

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NEXT LESSON

1 **Between which two whole numbers is √95?**

9 and 10

TESTS The square numbers either side, so the two whole numbers

LOOK FOR *47 and 48* halved 95

81 and 100 gave the square numbers, not their square roots

FIX IT

Between which two whole numbers is √110? *10 and 11*

2 **Estimate √42 to 1 decimal place.**

6.5

TESTS A square root to 1 decimal place: how far along the gap

LOOK FOR *21* halved 42

6.6 counted the 6 past 36 as tenths: the gap is 13, not 10

FIX IT

Estimate √83 to 1 decimal place. *9.1*

3 **Estimate $\sqrt[3]{60}$ to 1 decimal place.**

3.9

TESTS A cube root to 1 decimal place, from the cube numbers either side

LOOK FOR *20* divided 60 by 3

7.7 found the square root, not the cube root

FIX IT

Estimate $\sqrt[3]{140}$ to 1 decimal place. *5.2*