Fractional and negative indices

Exit ticket ANSWERS Name _____

1 Work out 8^{-2}.

$\frac{1}{64}$

2 Work out $81^{\frac{1}{2}}$.

9

3 Work out $36^{-\frac{1}{2}}$.

$\frac{1}{6}$

The Maths Habit

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NEXT LESSON

1 Work out 8^{-2}.

$\frac{1}{64}$

TESTS A negative index: 1 over the power

LOOK FOR *−64* made the answer negative

−16 multiplied 8 by −2

FIX IT Work out 3^{-4}. $\frac{1}{81}$

2 Work out $81^{\frac{1}{2}}$.

9

TESTS An index of a half: the square root

LOOK FOR *40.5* halved 81

FIX IT Work out $169^{\frac{1}{2}}$. *13*

3 Work out $36^{-\frac{1}{2}}$.

$\frac{1}{6}$

TESTS A negative and a fraction together: 1 over the root

LOOK FOR *−6* made the answer negative

−18 halved 36 and made it negative

FIX IT Work out $121^{-\frac{1}{2}}$. $\frac{1}{11}$