Simplifying surds

Exit ticket ANSWERS Name _____

1. Find the largest square factor of 80.

16

2. Simplify $\sqrt{18}$

$3\sqrt{2}$

3. Simplify $\sqrt{96}$. Give your answer in its simplest form.

$4\sqrt{6}$

The Maths Habit

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NEXT LESSON

1 **Find the largest square factor of 80.**

16

TESTS Finding the largest square factor

LOOK FOR
- *4* a square factor of 80, but 16 is bigger
- *5* the other factor: 80 = 16 × 5

FIX IT

Find the largest square factor of 108. *36*

2 **Simplify √18**

3√2

TESTS Splitting the root and taking the square root of the square factor

LOOK FOR
- *9√2* did not take the square root of 9
- *3 + √2* added √9 and √2

FIX IT

Simplify √75 *5√3*

3 **Simplify √96. Give your answer in its simplest form.**

4√6

TESTS Simplifying fully with the largest square factor

LOOK FOR
- *2√24* used 4: 24 still has the square factor 4
- *16√6* did not take the square root of 16

FIX IT

Simplify √147. Give your answer in its simplest form. *7√3*