Names (pair) _____ Date _____

Who Is Right? Mistakes with Decimals

Remember

For each claim: **1.** estimate or draw a model (grid, number line, place value table), **2.** decide whether it is true, **3.** explain why, **4.** if it is false, write the correct answer. True claims need a reason too.

1 IN PAIRS Who is right? Circle and explain.

1 **Luke:** $0.25 > 0.3$, because 25 is greater than 3. **true** / **false**

Why? _____

Correction: _____

2 **Emma:** 0.5 and 0.50 are the same number. **true** / **false**

Why? _____

Correction: _____

3 **Ivo:** 2.349 rounded to tenths is 2.4, because $2.349 \approx 2.35 \approx 2.4$. **true** / **false**

Why? _____

Correction: _____

4 **Mia:** $0.7 + 0.25 = 0.32$. **true** / **false**

Why? _____

Correction: _____

5 **Tom:** $4 - 1.35 = 3.35$. **true** / **false**

Why? _____

Correction: _____

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6 **Ana:** $0.4 \times 10 = 0.40$. **true** / **false**

Why? _____

Correction: _____

7 **Leo:** $0.3 \times 0.2 = 0.6$. **true** / **false**

Why? _____

Correction: _____

8 **Sara:** A product is always greater than both factors. **true** / **false**

Why? _____

Correction: _____

9 **Niko:** $2.4 \div 0.3 = 8$. **true** / **false**

Why? _____

Correction: _____

10 **Lana:** $0.6 = 6\%$. **true** / **false**

Why? _____

Correction: _____

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2 IN PAIRS **Your mistake.** Write one wrong calculation with decimals that someone might make. Swap sheets with another pair: they must find the mistake, explain it and correct it.

Our wrong calculation:

The mistake and the correction (written by the other pair):

3 ON YOUR OWN Check yourself. Tick.

I can...	confidently	mostly	need practice
compare decimals with different numbers of decimal places	☐	☐	☐
place a decimal on the number line and round it	☐	☐	☐
add and subtract by lining up the decimal points	☐	☐	☐
multiply and divide by 10, 100 and 1000	☐	☐	☐
use an estimate to place the point in a product or quotient	☐	☐	☐
write the same number as a decimal, a fraction and a percentage	☐	☐	☐

4 ON YOUR OWN Which item do you need to practise? Find a sheet on the Decimals page that can help and write its name.