Names (pair) _____ Date _____

Who Is Right? Mistakes with Fractions

Remember

For each claim: **1.** estimate or draw a model, **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 **Ana:** "$\frac{1}{8} > \frac{1}{6}$ because 8 is greater than 6." **true** / **false**

Why? _____

Correction: _____

2 **Lana:** "$\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$" **true** / **false**

Why? _____

Correction: _____

3 **Petra:** "$\frac{4}{4} = 1$ and $\frac{8}{4} = 2$." **true** / **false**

Why? _____

Correction: _____

4 **Leo:** "$\frac{2}{3} = \frac{4}{6}$ because I multiplied the numerator and the denominator by 2." **true** / **false**

Why? _____

Correction: _____

5 **Maja:** "$\frac{3}{4} - \frac{1}{2} = \frac{2}{2} = 1$" **true** / **false**

Why? _____

Correction: _____

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6 **Tom:** "Multiplying always makes a number bigger, so $6 \times \frac{1}{2}$ is more than 6." **true** / **false**

Why? _____

Correction: _____

7 **Sara:** "$4 \div \frac{1}{2} = 2$ because I am halving." **true** / **false**

Why? _____

Correction: _____

8 **Ena:** "$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ because half of a third is a sixth." **true** / **false**

Why? _____

Correction: _____

9 **David:** "$\frac{2}{3} \div \frac{1}{3} = 2$ because $\frac{1}{3}$ fits into $\frac{2}{3}$ twice." **true** / **false**

Why? _____

Correction: _____

10 **Max:** "$\frac{5}{12} + \frac{7}{12} = \frac{12}{24} = \frac{1}{2}$" **true** / **false**

Why? _____

Correction: _____

Names (pair) _____ Date _____

2 IN PAIRS **Your mistake.** Write one wrong calculation with fractions 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
place a fraction on the number line	☐	☐	☐
compare fractions without a common denominator	☐	☐	☐
estimate a sum or difference before calculating	☐	☐	☐
explain why $\frac{1}{2}$ of $\frac{1}{3}$ is $\frac{1}{6}$	☐	☐	☐
predict whether a product or quotient is greater or smaller	☐	☐	☐
explain the rule for dividing fractions	☐	☐	☐

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