



A fraction as division

GRADE 5 MATH

Name _____

Date _____

For each sharing question, say first whether each share is more or less than one. One skill: **a fraction as division**.

WORKED EXAMPLE

A fraction **is** a division: $\frac{3}{4}$ **is** 3 divided by 4, always **top divided by bottom**. Sharing 3 sandwiches between 4 children: cut each into 4, giving 12 pieces, and each child takes 3 — which is $\frac{3}{4}$. So the fraction and the sharing are the same act. Taken the wrong way round it is $4 \div 3 = 1\frac{1}{3}$, which is **more than one sandwich each** out of only three, so it is rejected on the situation alone. When the answer is above one, the leftover goes over the number **sharing**: $13 \div 4$ is $3\frac{1}{4}$, never $3\frac{1}{3}$.

1. 3 cakes are shared equally between 5 children. Say first whether each child gets more or less than one cake, then say exactly how much.

APPLICATION

Show your thinking

Answer

2. Write each of these as a division and work it out: $\frac{5}{8}$, $\frac{17}{5}$.

FLUENCY

Show your thinking

Answer

3. Asked to share 3 sandwiches between 4 children, Tom works out $4 \div 3$ and answers $1\frac{1}{3}$ each. Explain why his answer is impossible, without doing the correct calculation.

REASONING

Show your thinking

Answer

4. Sharing 13 apples between 4 children, Priya gets 3 each with 1 left over, and writes $3\frac{1}{4}$. Explain what the bottom number of a fraction tells you, and give the right answer.

REASONING

Show your thinking

Answer