



Dividing with unit fractions

GRADE 5 MATH

Name _____

Date _____

Write the question in words first, every time. Then divide. Then multiply back to check.

WORKED EXAMPLE

How many fit? → the answer is bigger than the total. How much each? → the answer is smaller than the amount shared. Multiply back to check. The question decides the units of the answer.

1. Work out $3 \div \frac{1}{4}$

FLUENCY

Show your thinking

Answer

2. Work out $2 \div \frac{1}{3}$

FLUENCY

Show your thinking

Answer

3. Work out $5 \div \frac{1}{2}$

FLUENCY

Show your thinking

Answer

4. Work out $\frac{1}{4} \div 3$

FLUENCY

Show your thinking

Answer

5. Work out $\frac{1}{3} \div 2$

FLUENCY

Show your thinking

Answer

6. Work out $\frac{1}{2} \div 5$

FLUENCY

Show your thinking

Answer

7. For each answer in items 1 and 2, say whether it is bigger or smaller than the number you started with, and why.

REASONING

Show your thinking

Answer

8. A 4-metre plank is cut into half-metre pieces. How many pieces? Multiply back to check.

APPLICATION

Show your thinking

Answer

9. A third of a cake is shared between 4 children. How much cake each?

APPLICATION

Show your thinking

Answer

10. A child answers $\frac{1}{2} \div 6 = 12$. Show that this is impossible without doing the division.

REASONING

Show your thinking

Answer

11. 3 litres poured into quarter-litre glasses, and 3 litres shared between 4 jugs. Both use 3 and 4. Explain why the answers are 12 and $\frac{3}{4}$, and what the units of each are.

REASONING

Show your thinking

Answer

- 12.** $6 \div \frac{1}{2} = 12$ and $6 \div 0.5 = 12$. Explain why these are the same question.

REASONING

Show your thinking

Answer

- 13.** Why does dividing by a number less than 1 make the answer bigger?

REASONING

Show your thinking

Answer