

Fraction Division Switch

Show division in fraction form and back again.

GRADE 6 • TEKS 6.2.E

6.2.E "extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \neq 0$."

NAME _____

DATE _____

ONE VALUE, TWO FORMS

A fraction is another way to write division. In a/b , a is the number being divided and b is the number you divide by, so b cannot be 0. You can rewrite either form without changing its value.

WORKED EXAMPLE

Write $24 \div 8$ as a fraction, then find its value.

1. Start with $24 \div 8$.
2. Put the dividend, 24, above the fraction bar.
3. Put the divisor, 8, below the fraction bar:
 $24/8$.
4. Evaluate: $24/8 = 3$.

Answer: $24/8 = 3$

PRACTICE 6 problems

1 Write $13 \div 5$ as a fraction.

ANSWER _____

2 Write $17/4$ as a division expression.

ANSWER _____

3 Complete: $32/2 = 32 \div \underline{\hspace{1cm}}$

ANSWER _____

4 Complete: $27 \div 9 = \underline{\hspace{1cm}}/9$

ANSWER _____

5 Which fraction equals $19 \div 6$: $6/19$ or $19/6$?

ANSWER _____

6 Evaluate $42/7$ by thinking of it as division.

ANSWER _____

APPLY IT Show your work

- 1** A student photography club has 28 photo cards to share equally among 7 members. Write the division as a fraction, then find how many photo cards each member gets.

WORK SPACE

ANSWER _____

- 2** The video club splits a 45-minute movie into 9 equal clips for a class project. Write the division as a fraction, then find the length of each clip.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Ari says $5/30$ represents the same division as $30 \div 5$. Is Ari correct? Explain by writing both matching division expressions and evaluating.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $13 \div 5$ as a fraction.	13/5
2	Write $17/4$ as a division expression.	17 $\div$ 4
3	Complete: $32/2 = 32 \div \underline{\quad}$	2
4	Complete: $27 \div 9 = \underline{\quad}/9$	27
5	Which fraction equals $19 \div 6$: $6/19$ or $19/6$?	19/6
6	Evaluate $42/7$ by thinking of it as division.	6

PART 2 • APPLY IT

1. **$28 \div 7 = 28/7 = 4$ photo cards each** The total number of photo cards is the numerator, and the number of members is the denominator. Divide 28 by 7 to get 4.
2. **$45 \div 9 = 45/9 = 5$ minutes per clip** Write $45/9$ because 45 minutes are divided into 9 equal clips. Divide 45 by 9 to get 5 minutes.

CHALLENGE

No. $5/30 = 5 \div 30 = 1/6$, while $30 \div 5 = 30/5 = 6$.

Accept a slash or a horizontal fraction bar, as long as the dividend is the numerator and the divisor is the denominator. For items asking for a value, accept equivalent correct forms.