LESSON MAKER PRO

Fraction Division Quest

Find how many unit-fraction groups fit and how shares get smaller.

GRADE 5 · TEKS 5.3.L

5.3.L "divide whole numbers by unit fractions and unit fractions by whole numbers."

NAME _____ DATE _____

DIVIDE WITH UNIT FRACTIONS

To divide a whole number by a unit fraction, multiply the whole number by the fraction's denominator. To divide a unit fraction by a positive whole number, multiply its denominator by that number. A divisor greater than 1 gives a smaller unit fraction; division by 1 leaves it unchanged.

WORKED EXAMPLE

$11 \div 1/9$

1. A whole has 9 groups of 1/9.
2. 11 wholes have 11 x 9 groups of 1/9.
3. 11 x 9 = 99.
4. 11 ÷ 1/9 = 99.

Answer: 99

PRACTICE 6 problems

1 8 ÷ 1/2 =

ANSWER _____

2 7 ÷ 1/4 =

ANSWER _____

3 15 ÷ 1/5 =

ANSWER _____

4 1/2 ÷ 3 =

ANSWER _____

5 1/5 ÷ 4 =

ANSWER _____

6 1/7 ÷ 2 =

ANSWER _____

APPLY IT Show your work

1 A friendship-bracelet club has 18 feet of cord. Each bracelet needs 1/6 foot of cord. How many bracelets can the club make?

WORK SPACE

ANSWER _____

2 A student has 1/4 minute of music for five short video clips. The music is shared equally. How many minutes of music does each clip get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find x. x ÷ 1/8 = 56

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Division Quest

GRADE 5 · TEKS 5.3.L

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	8 ÷ 1/2 =	**16**
2	7 ÷ 1/4 =	**28**
3	15 ÷ 1/5 =	**75**
4	1/2 ÷ 3 =	**1/6**
5	1/5 ÷ 4 =	**1/20**
6	1/7 ÷ 2 =	**1/14**

PART 2 · APPLY IT

1. **108 bracelets** Divide 18 by 1/6. Since each foot contains 6 groups of 1/6, compute 18 x 6 = 108.
2. **1/20 minute** Divide 1/4 by 5. Multiply the denominator 4 by 5 to get 1/20.

CHALLENGE

x=7

Accept equivalent fraction answers when they are correct, although the listed fraction answers are in simplest form. For the challenge, accept work showing that 56 groups of 1/8 make 7 wholes.