

Divide a Whole Number by a Unit Fraction

Name: _____

Grade 5 · How many unit fractions fit in a whole number

How it works



$$2 \div \frac{1}{3} = 6$$



Count the parts: 6.

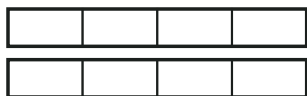
$2 \div \frac{1}{3}$ asks: **how many thirds are in 2?**

Each whole has 3 thirds, so 2 wholes have $2 \times 3 = 6$ thirds.

To divide a whole number by a unit fraction, multiply by the denominator.

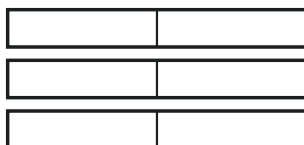
A. Each bar is one whole. Count the parts to divide.

1.



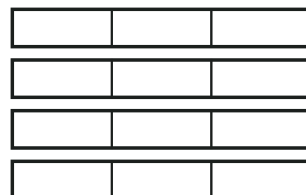
$$2 \div \frac{1}{4} = \square$$

2.



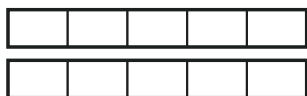
$$3 \div \frac{1}{2} = \square$$

3.



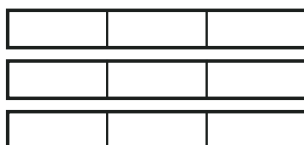
$$4 \div \frac{1}{3} = \square$$

4.



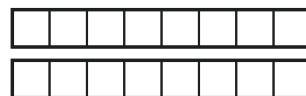
$$2 \div \frac{1}{5} = \square$$

5.



$$3 \div \frac{1}{3} = \square$$

6.



$$2 \div \frac{1}{8} = \square$$

B. Divide.

1. $5 \div \frac{1}{2} = \square$

2. $4 \div \frac{1}{5} = \square$

3. $6 \div \frac{1}{3} = \square$

4. $7 \div \frac{1}{4} = \square$

5. $3 \div \frac{1}{10} = \square$

6. $8 \div \frac{1}{2} = \square$

7. $9 \div \frac{1}{3} = \square$

8. $5 \div \frac{1}{8} = \square$

9. $6 \div \frac{1}{4} = \square$

C. Solve.

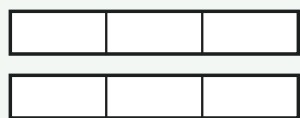
1. How many $\frac{1}{4}$ -cup scoops of rice are in 3 cups? _____

2. How many halves are in 7 wholes? _____

Divide a Whole Number by a Unit Fraction (Answer Key)

Grade 5 · How many unit fractions fit in a whole number

How it works



$$2 \div \frac{1}{3} = 6$$

Count the parts: 6.

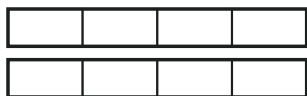
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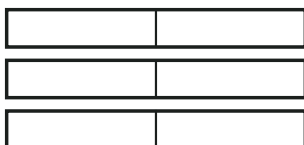
A. Each bar is one whole. Count the parts to divide.

1.



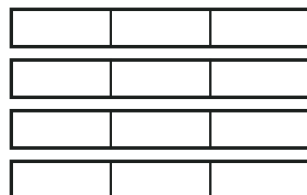
$$2 \div \frac{1}{4} = \boxed{8}$$

2.



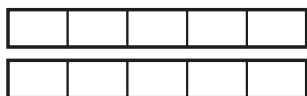
$$3 \div \frac{1}{2} = \boxed{6}$$

3.



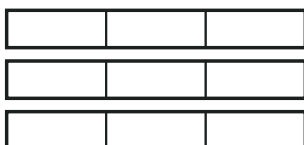
$$4 \div \frac{1}{3} = \boxed{12}$$

4.



$$2 \div \frac{1}{5} = \boxed{10}$$

5.



$$3 \div \frac{1}{3} = \boxed{9}$$

6.



$$2 \div \frac{1}{8} = \boxed{16}$$

B. Divide.

1. $5 \div \frac{1}{2} = \boxed{10}$

2. $4 \div \frac{1}{5} = \boxed{20}$

3. $6 \div \frac{1}{3} = \boxed{18}$

4. $7 \div \frac{1}{4} = \boxed{28}$

5. $3 \div \frac{1}{10} = \boxed{30}$

6. $8 \div \frac{1}{2} = \boxed{16}$

7. $9 \div \frac{1}{3} = \boxed{27}$

8. $5 \div \frac{1}{8} = \boxed{40}$

9. $6 \div \frac{1}{4} = \boxed{24}$

C. Solve.

1. How many $\frac{1}{4}$ -cup scoops of rice are in 3 cups?

12

2. How many halves are in 7 wholes?

14