

Grade 6 · Dividing Fractions · Test

Common Core 6.NS.A.1 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This 45-minute test covers dividing fractions, whole numbers, and mixed numbers, plus word problems, from standard 6.NS.A.1. It has 8 questions worth 20 points in all. Show all work and write answers in simplest form.

Test information

- **Grade:** Grade 6
- **Chapter:** Dividing Fractions
- **Common Core:** 6.NS.A.1
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 3 pts; Question 5: 3 pts; Question 6: 3 pts; Question 7: 3 pts; Question 8: 2 pts)

Question 1: Dividing by a fraction (2 points)

- Find $\frac{3}{5} \div \frac{1}{10}$. (1 point)
- Find $4 \div \frac{2}{3}$. (1 point)

Question 2: Fraction quotients (2 points)

- Find $\frac{7}{8} \div \frac{7}{4}$. (1 point)
- Find $\frac{9}{10} \div 3$. (1 point)

Question 3: Mixed number quotients (2 points)

- Find $2\frac{1}{2} \div \frac{5}{6}$. (1 point)
- Find $1\frac{3}{4} \div 2\frac{1}{3}$. (1 point)

Question 4: Hair bows (3 points)

Sofia has $3\frac{3}{4}$ feet of ribbon. Each hair bow uses $\frac{5}{8}$ foot of ribbon. How many bows can she make? Show your work.

Item	Length
Ribbon	3 3/4 ft
One bow	5/8 ft

Ribbon for hair bows.

Question 5: Juice and lemonade (3 points)

- Priya has $\frac{2}{3}$ gallon of juice. She pours it into bottles that each hold $\frac{1}{6}$ gallon. How many bottles does she fill? (2 points)
- Aisha splits $\frac{1}{2}$ gallon of lemonade equally among 3 pitchers. How much lemonade is in each pitcher? (1 point)

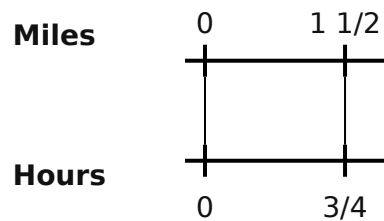
1/3	1/3	1/3
-----	-----	-----

$\frac{2}{3}$ gallon of juice.

Question 6: Running pace (3 points)

Noah runs $1\frac{1}{2}$ miles in $\frac{3}{4}$ hour at a steady pace.

- Find his speed in miles per hour. (2 points)
- At this speed, how far does he run in $2\frac{1}{2}$ hours? (1 point)



Noah's run.

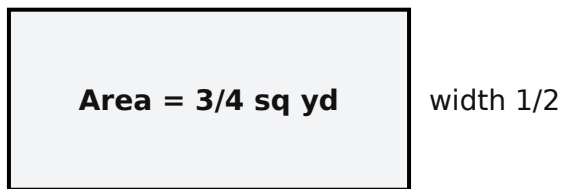
Question 7: Checking a quotient (3 points)

Liam says that $\frac{1}{3} \div 2 = 6$.

- Explain Liam's mistake and find the correct quotient. (2 points)
- Use multiplication to check your quotient. (1 point)

Question 8: Garden length (2 points)

A rectangular garden has an area of $\frac{3}{4}$ square yard and a width of $\frac{1}{2}$ yard. Find the length of the garden.



length = ?

The garden.