

Grade 5 - Fractions as Division - Test

Common Core 5.NF.B.3 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This test has 9 questions worth 20 points in all. It checks fractions as division (5.NF.B.3): writing division as fractions, using mixed numbers, and solving equal-sharing problems. Show all work and write units in word problems. The test takes about 45 minutes.

About this test

- Grade: Grade 5
- Chapter: Fractions as Division
- Standards: 5.NF.B.3
- Time: 45 minutes
- Total: 20 points

Question 1 - Division and fractions [2 pts]

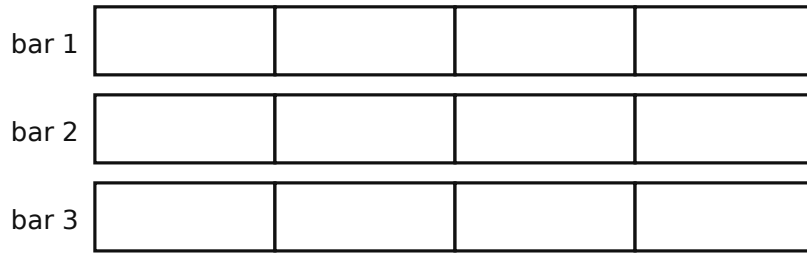
- Write $5 \div 8$ as a fraction. (1 point)
- Write $\frac{3}{7}$ as a division problem. (1 point)

Question 2 - Quotients as mixed numbers [2 pts]

- Find $11 \div 4$. Write the answer as a mixed number. (1 point)
- Find $19 \div 6$. Write the answer as a mixed number. (1 point)

Question 3 - Sharing granola bars [2 pts]

Four friends share 3 granola bars equally. Each bar is cut into 4 equal pieces, as shown.



Granola bars cut into fourths.

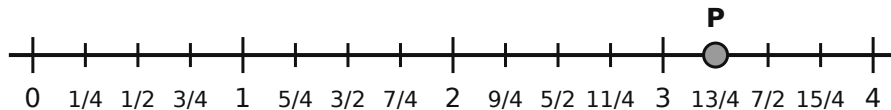
- Write a division sentence for this problem. (1 point)
- How much of a granola bar does each friend get? (1 point)

Question 4 - Which quotient is greater [2 pts]

Decide which is greater, $9 \div 4$ or $14 \div 6$. Show your work.

Question 5 - Point on a number line [3 pts]

Point P shows the quotient of a division problem on the number line.



Point P on a number line.

- Write the location of P as an improper fraction. (1 point)
- Write the location of P as a mixed number. (1 point)
- Write a division problem that has this quotient. (1 point)

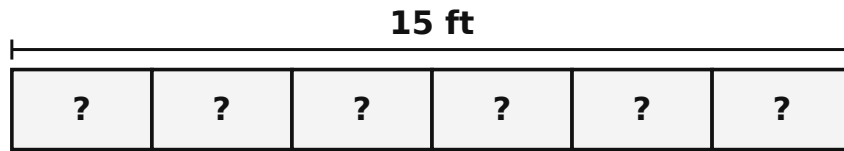
Question 6 - Oranges for players [3 pts]

A coach shares 10 oranges equally among 4 players.

- Write a division problem for this situation. (1 point)
- How many oranges does each player get? Write the answer as a mixed number in simplest form. (2 points)

Question 7 - Cutting a ribbon [3 pts]

A 15-foot ribbon is cut into 6 equal pieces.



Ribbon cut into 6 equal pieces.

- a. How long is each piece? Write the answer as a mixed number in simplest form. (2 points)
- b. Is each piece longer than 2 feet? Explain. (1 point)

Question 8 - Bags of flour [2 pts]

Liam divides 9 pounds of flour equally into 4 bags. He also has one bag that holds $2\frac{1}{2}$ pounds.

- a. How many pounds of flour go into each of the 4 bags? Write the answer as a mixed number. (1 point)
- b. Is the single bag heavier or lighter than one of the 4 equal bags? Explain. (1 point)

Question 9 - Find the mistake [1 pt]

Priya says that $4 \div 9$ equals $\frac{9}{4}$. Explain her mistake and give the correct fraction.