

Grade 5 - Fractions as Division - Quiz

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

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

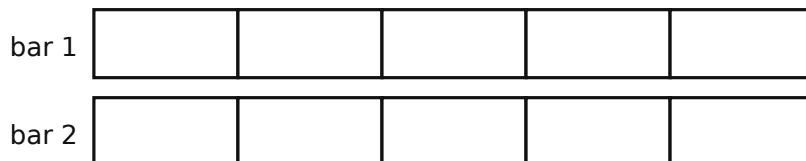
Answer these 10 multiple-choice questions about fractions as division. Each question has one correct answer. Think about which number is shared and how many groups share it, then read the explanation after each answer.

Grade 5 · Common Core State Standards: **5.NF.B.3**

Questions

Question 1

Five kids share 2 pans of brownies equally. How much of a pan does each kid get?



Two pans of brownies, each cut into 5 equal pieces.

- A. $\frac{5}{10}$ pans
- B. $\frac{1}{5}$ of a pan
- C. $\frac{2}{5}$ of a pan
- D. $\frac{5}{10}$ of a pan

Question 2

Which fraction is equal to $5 \div 6$?

- A. $\frac{5}{6}$
- B. $\frac{6}{5}$
- C. $\frac{5}{11}$
- D. $\frac{11}{5}$

Question 3

Which division problem is equal to $\frac{3}{8}$?

- A. $3 \div 8$
- B. $8 \div 3$
- C. 3×8
- D. $8 - 3$

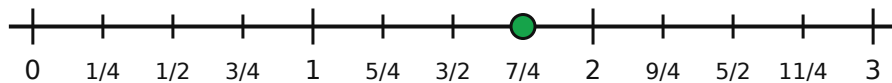
Question 4

Write $9 \div 4$ as a mixed number.

- A. $2\frac{4}{9}$
- B. $2\frac{1}{4}$
- C. $1\frac{1}{4}$
- D. $4\frac{1}{2}$

Question 5

The point on the number line shows the quotient of two whole numbers. Which division problem does it show?

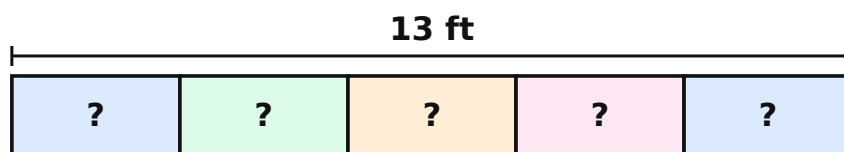


The point shows a quotient.

- A. $4 \div 7$
- B. $3 \div 4$
- C. $7 \div 4$
- D. 7×4

Question 6

A 13-foot rope is cut into 5 equal pieces. How long is each piece?



A rope cut into 5 equal pieces.

- A. $2\frac{3}{13}$ feet
- B. $2\frac{2}{5}$ feet
- C. $\frac{5}{13}$ foot
- D. $2\frac{3}{5}$ feet

Question 7

Three pounds of grapes are shared equally by 12 kids. How many pounds does each kid get?

- A. $\frac{1}{4}$ pound
- B. 4 pounds
- C. $\frac{1}{12}$ pound
- D. $\frac{1000}{4}$ pound

Question 8

Which quotient is greatest?

- A. $7 \div 3$
- B. $5 \div 2$
- C. $9 \div 4$
- D. $11 \div 5$

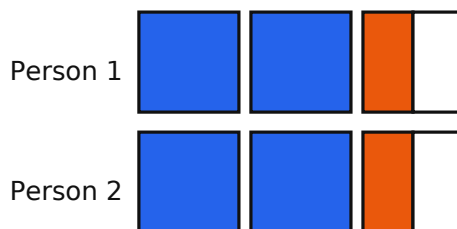
Question 9

A 17-foot rope is cut into 3 equal pieces. How long is each piece?

- A. $5\frac{1}{3}$ feet
- B. $3\frac{1}{3}$ feet
- C. $5\frac{2}{3}$ feet
- D. $\frac{3}{17}$ foot

Question 10

Two people share 5 granola bars equally. How many bars does each person get?



Five squares shared by 2 people.

- A. $2\frac{1}{2}$ bars
- B. $\frac{2}{5}$ bar
- C. $2\frac{1}{5}$ bars
- D. 5 bars

Answers

1. **D** – 2 pans shared by 5 kids is 2 divided by 5, which is $\frac{2}{5}$. Switching the numbers gives $\frac{5}{2}$, which is greater than 1.
2. **B** – The number being divided is the numerator, so 5 divided by 6 is $\frac{5}{6}$.
3. **A** – A fraction bar means division: the numerator is divided by the denominator.
4. **B** – 9 divided by 4 is 2 with remainder 1, so the mixed number is $2\frac{1}{4}$. Putting the divisor over the remainder gives the wrong fraction.
5. **C** – The point is 7 fourths from 0, so it is $\frac{7}{4} = 7$ divided by 4. It lies between 1 and 2.
6. **D** – 13 divided by 5 is 2 remainder 3, so each piece is $2\frac{3}{5}$ feet. The remainder goes over the divisor 5.
7. **A** – 3 divided by 12 is $\frac{3}{12}$, which simplifies to $\frac{1}{4}$. Dividing 12 by 3 would give 4, which is the wrong direction.
8. **B** – $\frac{5}{2} = 2\frac{1}{2}$, $\frac{7}{3} = 2\frac{1}{3}$, $\frac{9}{4} = 2\frac{1}{4}$, and $\frac{11}{5} = 2\frac{1}{5}$. The greatest fraction part is $\frac{1}{2}$.
9. **C** – 17 divided by 3 is 5 remainder 2, so each piece is $5\frac{2}{3}$ feet.
10. **A** – 5 divided by 2 is 2 remainder 1, so each person gets 2 bars and half of the last bar.

Remember

- The fraction $\frac{a}{b}$ means a divided by b.
- The numerator is the amount shared. The denominator is the number of equal groups.
- If a is less than b, the quotient is less than 1.
- If a is greater than b, write the quotient as a mixed number: whole part plus remainder over divisor.
- Check with a picture or a number line.