

**Math 6 Practice Test: Fractions**

Name:

Date:

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1. Define *reciprocal* and give an example.
  
  
  
  
  
  
  
  
  
  
2. Define *greatest common factor*. Find the GCF of 16 and 24. Show your work.
  
  
  
  
  
  
  
  
  
  
3. Explain 4 different methods for finding the least common denominator.
  
  
  
  
  
  
  
  
  
  
4. Write the algorithm for dividing fractions.
  
  
  
  
  
  
  
  
  
  
5. Look at the fractions below.

$$\frac{3}{4}, \frac{7}{10}, \frac{2}{5}, \frac{1}{2}$$

What is the order of the fractions from greatest to least?

- A.  $\frac{3}{4}, \frac{7}{10}, \frac{2}{5}, \frac{1}{2}$
- B.  $\frac{3}{4}, \frac{7}{10}, \frac{1}{2}, \frac{2}{5}$
- C.  $\frac{2}{5}, \frac{1}{2}, \frac{3}{4}, \frac{7}{10}$
- D.  $\frac{2}{5}, \frac{1}{2}, \frac{7}{10}, \frac{3}{4}$

6. Triplets Darla, Darion and Darrell receive the same amount of allowance each week. Darla spent  $\frac{2}{3}$  of her allowance going to the movies, Darion spent  $\frac{3}{4}$  on a CD and Darrell spent  $\frac{5}{8}$  going to a basketball game. List the triplets in order of their spending from least to greatest.

7. Write 0.57 as a fraction.

8. Write 2.3 as a fraction or mixed number.

9. Which decimal number is equivalent to  $\frac{5}{8}$ ? Show your work.

- A. 5.8
- B. 1.6
- C. 0.63
- D. 0.625

10. Write  $5\frac{2}{3}$  as a decimal.

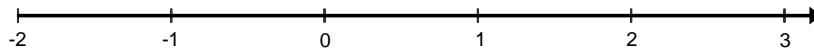
11. Draw a model to show  $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ .

12. Draw a model to solve  $\frac{7}{9} \div \frac{1}{3} = ?$

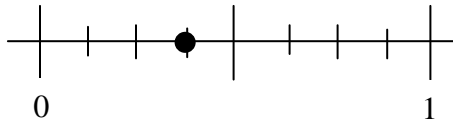
13. Rewrite  $36 + 48$  as a product of a GCF and a sum.

14. Graph the set of numbers given below on the number line. Be sure to label each point.

$$\left\{ -1, \frac{2}{3}, 0.07, -2\frac{1}{6}, -1.25, 1.7 \right\}$$



15. (NAEP) On the portion of the number line below, a dot shows where  $\frac{3}{8}$  is. Use another dot to show where  $\frac{3}{4}$  is.



For problems 16 – 23, add, subtract, multiply or divide. Write the answer in simplest form. Show your work.

16.  $\frac{5}{8} + \frac{7}{12}$

17.  $3\frac{2}{5} + 1\frac{1}{3}$

18.  $\frac{2}{3} - \frac{2}{5}$

19.  $12\frac{1}{3} - 5\frac{3}{4}$

20.  $\frac{35}{10} \cdot \frac{6}{7} \cdot \frac{5}{9}$

21.  $5\frac{1}{4} \cdot \frac{2}{3}$

22.  $\frac{7}{9} \div \frac{14}{27}$

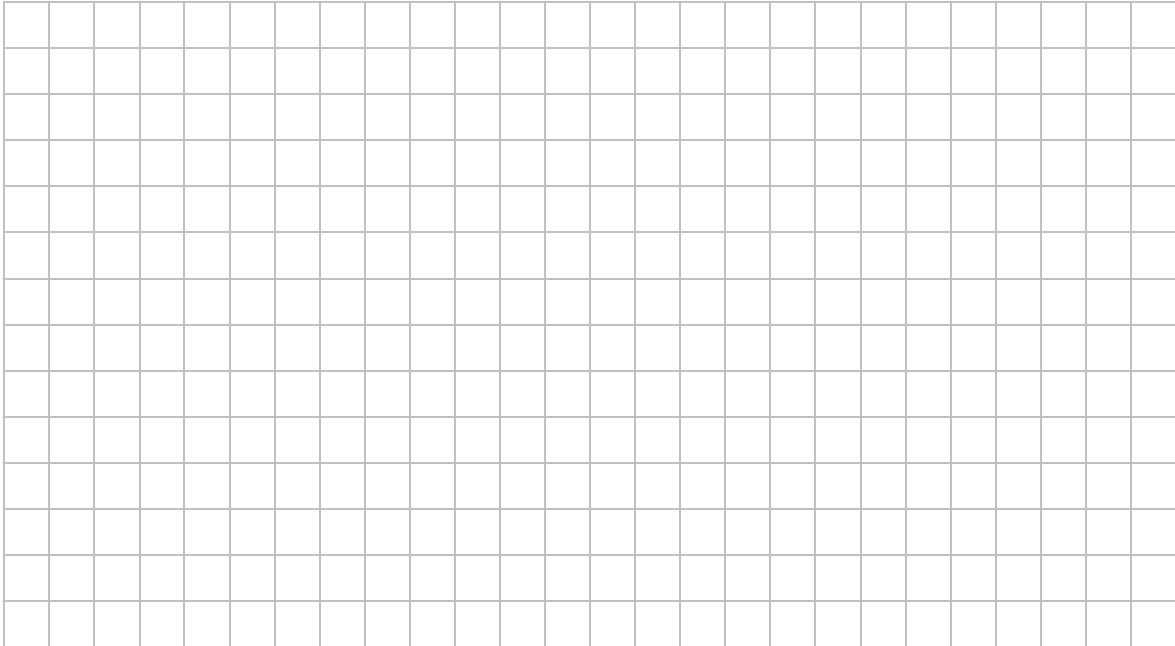
23.  $4\frac{1}{4} \div 1\frac{1}{2}$

24. A student divided  $\frac{2}{3} \div \frac{2}{7}$  and got a result of  $\frac{3}{7}$ . Did the student do the problem correctly? If not, what is the correct answer? How would you explain their error and the correction to the student?

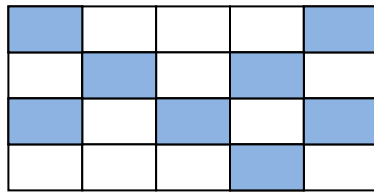


28. You are making flower arrangements to give to the 6<sup>th</sup> grade teachers. You have 12 roses, 24 daisies and 30 tulips.

- A. What is the greatest number of arrangements you can make if each arrangement must have the same number of each flower (with no flowers left over)?
- B. How many of each flower type will be in each arrangement? Explain your thinking.



29. The figure below is divided into equal-sized pieces. Some of the pieces are shaded.



Which decimal number describes the portion of the entire figure that is shaded?

- A. 0.20
- B. 0.25
- C. 0.40
- D. 0.50

30. (SBAC) Place the value in the box that makes the statement below correct.

$$-\left(-\frac{3}{4}\right) + \frac{1}{3} = \frac{\boxed{\phantom{000}}}{4} + \frac{1}{3}$$

### Long Term Memory Review

31. Divide. Show your work.

$$7.2 \overline{)16.848}$$

32. Evaluate:  $4|24 \div (-3-5)| + 6$ . Show your work.

33. Graph the given ordered pairs on the coordinate graph and label each point.

A  $(-2, -8)$     B  $(-6, 0)$     C  $(8, 4)$     D  $(-4, 6)$     E  $(5, -7)$

