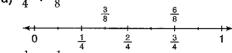
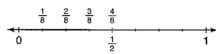
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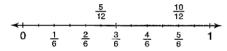
Check

- 4. Write the reciprocal of each fraction.
- b) $\frac{3}{7}$
- c) $\frac{7}{8}$
- **5.** Use a copy of each number line to illustrate each quotient.





c) $\frac{5}{6} \div \frac{5}{12}$

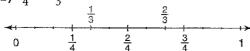


- **6.** Divide: $\frac{3}{5} \div \frac{9}{10}$
 - a) What is the reciprocal of $\frac{9}{10}$?
 - b) Use multiplication. Simplify first.
 - c) Estimate the quotient.
 - d) Is the quotient reasonable? How do you know?

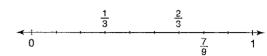
Apply

- 7. Use a copy of each number line to illustrate each quotient.

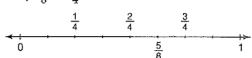




c) $\frac{7}{9} \div \frac{1}{3}$



d) $\frac{5}{8} \div \frac{1}{4}$



8. Find each quotient.

a)
$$\frac{7}{10} \div \frac{3}{10}$$
 b) $\frac{5}{9} \div \frac{2}{9}$

b)
$$\frac{5}{9} \div \frac{2}{9}$$

c)
$$\frac{3}{5} \div \frac{2}{5}$$
 d) $\frac{4}{5} \div \frac{2}{5}$

d)
$$\frac{4}{5} \div \frac{2}{5}$$

9. Use multiplication to find each quotient.

a)
$$\frac{8}{5} \div \frac{2}{4}$$

a)
$$\frac{8}{5} \div \frac{3}{4}$$
 b) $\frac{9}{10} \div \frac{5}{3}$

c)
$$\frac{7}{2} \div \frac{4}{3}$$
 d) $\frac{1}{2} \div \frac{7}{6}$

d)
$$\frac{1}{2} \div \frac{7}{6}$$

10. Use common denominators to find each quotient.

a)
$$\frac{7}{12} \div \frac{1}{4}$$
 b) $\frac{3}{5} \div \frac{11}{10}$ c) $\frac{5}{2} \div \frac{1}{3}$ d) $\frac{5}{6} \div \frac{9}{8}$

b)
$$\frac{3}{5} \div \frac{11}{10}$$

c)
$$\frac{5}{2} \div \frac{1}{3}$$

d)
$$\frac{5}{6} \div \frac{9}{8}$$

11. Divide. Estimate to check each quotient is reasonable.

a)
$$\frac{5}{3} \div \frac{3}{5}$$

a)
$$\frac{5}{3} \div \frac{3}{5}$$
 b) $\frac{4}{9} \div \frac{4}{9}$ c) $\frac{1}{6} \div \frac{5}{2}$

c)
$$\frac{1}{6} \div \frac{5}{2}$$

12. Suppose you have $\frac{11}{12}$ of a cake. How many servings can you make of each size?

a)
$$\frac{1}{4}$$
 of the cake

a)
$$\frac{1}{4}$$
 of the cake b) $\frac{1}{3}$ of the cake

c)
$$\frac{1}{6}$$
 of the cake

c)
$$\frac{1}{6}$$
 of the cake d) $\frac{1}{2}$ of the cake

13. a) Find each quotient.

i)
$$\frac{3}{4} \div \frac{5}{8}$$

i)
$$\frac{3}{4} \div \frac{5}{8}$$
 ii) $\frac{5}{8} \div \frac{3}{4}$

iii)
$$\frac{7}{12} \div \frac{1}{12}$$

iii)
$$\frac{7}{12} \div \frac{2}{5}$$
 iv) $\frac{2}{5} \div \frac{7}{12}$

$$v) \frac{5}{3} \div \frac{4}{3}$$

v)
$$\frac{5}{3} \div \frac{4}{5}$$
 vi) $\frac{4}{5} \div \frac{5}{3}$

- b) In part a, what patterns do you see in the division statements and their quotients? Write two more pairs of division statements that follow the same pattern.
- **14.** As a busboy in a restaurant, Amiel takes $\frac{1}{12}$ h to clear and reset a table. How many tables can Amiel clear in $\frac{2}{3}$ h? Estimate to check the solution is reasonable.
- **15.** Divide. Estimate to check each quotient is reasonable.

a)
$$\frac{27}{28} \div \frac{9}{14}$$
 b) $\frac{15}{22} \div \frac{3}{11}$

b)
$$\frac{15}{22} \div \frac{3}{11}$$

c)
$$\frac{32}{51} \div \frac{8}{17}$$

c)
$$\frac{32}{51} \div \frac{8}{17}$$
 d) $\frac{57}{69} \div \frac{19}{115}$

16. To conduct a science experiment, each pair of students requires $\frac{1}{16}$ cup of vinegar. The science teacher has $\frac{3}{4}$ cup of vinegar. How many pairs of students can conduct the experiment?

17. Assessment Focus

a) Copy the boxes below. Write the digits 2, 3, 4, and 5 in the boxes to make as many different division statements as you can.

- b) Which division statement in part a has the greatest quotient? The least quotient? How do you know? Show your work.
- **18.** Tahoe used the expression $\frac{7}{8} \div \frac{1}{4}$ to solve a word problem. What might the word problem be? Solve the problem. Estimate to check the solution is reasonable.
- **19.** Take It Further Copy each division equation. Replace each \(\square\) with a fraction to make each equation true. Explain the strategy you used.

a)
$$\frac{2}{3} \div \Box = \frac{8}{9}$$

a)
$$\frac{2}{3} \div \square = \frac{8}{9}$$
 b) $\frac{3}{11} \div \square = \frac{12}{55}$

c)
$$\frac{1}{4} \div \Box = \frac{9}{20}$$
 d) $\frac{4}{5} \div \Box = \frac{28}{45}$

d)
$$\frac{4}{5} \div \Box = \frac{28}{45}$$

20. Take It Further Write as many division statements as you can that have a quotient between $\frac{1}{2}$ and 1. Explain the strategy you used.

Kafiladi

Explain how your knowledge of common denominators can help you divide two fractions. Include an example in your explanation.