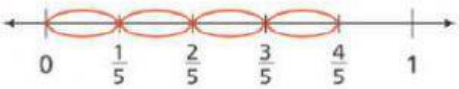
Lesson 1-5 Divide Fractions by Fractions

Do You Know How?

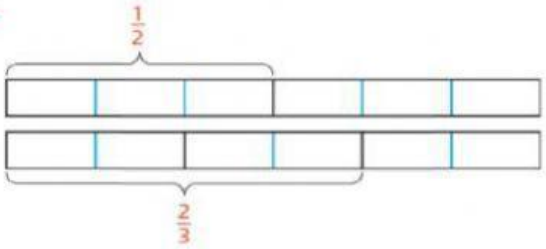
In 5–7, write a division sentence to represent each model.

5.



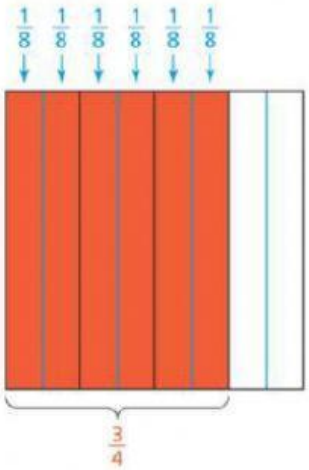
$\frac{\square}{\square} \div \frac{\square}{\square} = \square$

6.



$\frac{\square}{\square} \div \frac{\square}{\square} = \square$

7.



$\frac{\square}{\square} \div \frac{\square}{\square} = \square$

In 8–11, find each quotient.

8. $\frac{3}{4} \div \frac{2}{3}$ $\frac{\square}{\square} \times \frac{\square}{\square} = \square\frac{\square}{\square}$

9. $\frac{3}{12} \div \frac{1}{8}$ $\frac{\square}{\square} \times \frac{\square}{\square} = \square$

10. $\frac{1}{2} \div \frac{4}{5}$ $\frac{\square}{\square} \times \frac{\square}{\square} = \square\frac{\square}{\square}$

11. $\frac{7}{10} \div \frac{2}{5}$ $\frac{\square}{\square} \times \frac{\square}{\square} = \square\frac{\square}{\square}$

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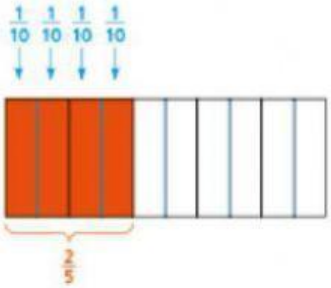
Practice & Problem Solving

In 12 and 13, complete each division sentence using the models provided.

12. $\frac{1}{3} \div \frac{1}{12} =$ ☐



13. $\frac{2}{5} \div \frac{1}{10} =$ ☐



In 14–25, find each quotient.

14. $\frac{2}{3} \div \frac{1}{3}$

☐/☐ x ☐/☐ = ☐/☐ = ☐

15. $\frac{1}{2} \div \frac{1}{16}$

☐/☐ x ☐/☐ = ☐/☐ = ☐

16. $\frac{1}{4} \div \frac{1}{12}$

☐/☐ x ☐/☐ = ☐/☐ = ☐

17. $\frac{6}{7} \div \frac{3}{7}$

☐/☐ x ☐/☐ = ☐/☐ = ☐

18. $\frac{5}{14} \div \frac{4}{7}$

☐/☐ x ☐/☐ = ☐/☐ = ☐/☐

19. $\frac{5}{8} \div \frac{1}{2}$

☐/☐ x ☐/☐ = ☐/☐ = ☐ ☐/☐

20. $\frac{7}{12} \div \frac{3}{4}$

☐/☐ x ☐/☐ = ☐/☐ = ☐/☐

21. $\frac{2}{7} \div \frac{1}{2}$

☐/☐ x ☐/☐ = ☐/☐

22. $\frac{4}{9} \div \frac{2}{3}$

☐/☐ x ☐/☐ = ☐/☐ = ☐/☐

23. $\frac{7}{12} \div \frac{1}{8}$

☐/☐ x ☐/☐ = ☐/☐ = ☐ ☐/☐

24. $\frac{3}{10} \div \frac{3}{5}$

☐/☐ x ☐/☐ = ☐/☐ = ☐/☐

25. $\frac{2}{5} \div \frac{1}{8}$

☐/☐ x ☐/☐ = ☐/☐ = ☐ ☐/☐

26. Be Precise A large bag contains $\frac{12}{15}$ pound of granola. How many $\frac{1}{3}$-pound bags can be filled with this amount of granola? How much granola is left over?



☐/☐ ÷ ☐/☐ = ☐/☐ = ☐ ☐/☐

27. Higher Order Thinking Find $\frac{3}{4} \div \frac{2}{3}$. Then draw a picture and write an explanation describing how to get the answer.

☐/☐ ÷ ☐/☐ = ☐/☐ = ☐ ☐/☐

28. The area of a rectangular painting is $\frac{1}{6}$ square yard. The width is $\frac{2}{3}$ yard. What is the length of the painting? Use the formula $A = \ell \times w$.

L = A ÷ w

L = ☐/☐ ÷ ☐/☐ = ☐/☐ = ☐/☐

29. Solve for n in the equation $\frac{13}{16} \div \frac{1}{6} = n$.

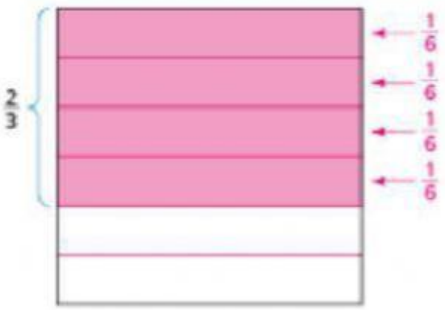
n = ☐/☐ ÷ ☐/☐ = ☐/☐ x ☐/☐ = ☐/☐ = ☐ ☐/☐

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30. Model with Math A cafeteria uses $\frac{1}{6}$ pound of coffee to fill a large coffee dispenser. The cafeteria has $\frac{2}{3}$ pound of coffee to use.

b. Write a division sentence that describes the model and tells how many dispensers can be filled.

$$\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\square}{\square} = \square$$



31. Model with Math A full load for a small truck to haul is $\frac{2}{3}$ ton of gravel. The truck is hauling $\frac{1}{2}$ ton of gravel.

a. Complete the model below to find how much of a full load the truck is hauling.

b. Write a division sentence that describes the model and tells how much of a full load the truck is hauling.

$$\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\square}{\square}$$



32. Use Structure How many $\frac{1}{4}$-inch pieces can be cut from a piece of metal $\frac{5}{8}$ inch long?

$$\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$$

33. Write a problem that could be solved by finding $\frac{5}{8} \div \frac{2}{5}$.

Assessment Practice

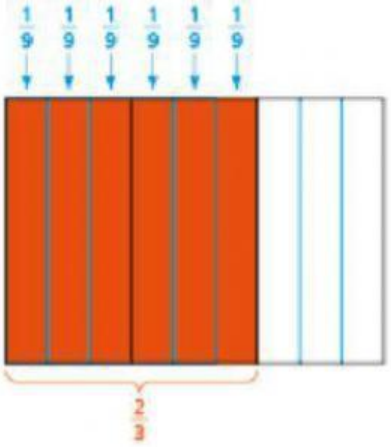
34. Which division sentence is shown by the model at the right?

A) $\frac{2}{3} \div \frac{1}{9} = 6$

B) $\frac{1}{9} \div \frac{2}{3} = \frac{1}{6}$

C) $6 \div \frac{1}{9} = 54$

D) $6 \div \frac{2}{3} = 9$



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