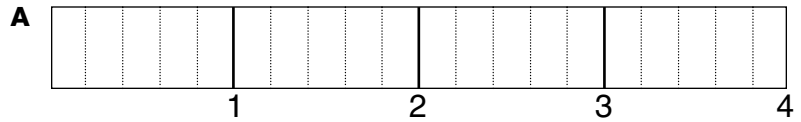


Model Division

Match each question with the correct model. Then complete the division sentence.

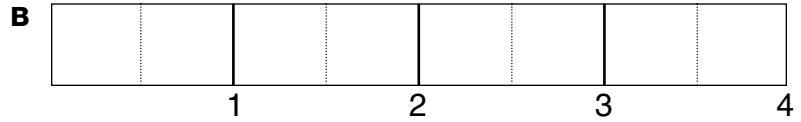
1. What is 4 divided by $\frac{1}{3}$?

$4 \div \frac{1}{3} = \square$



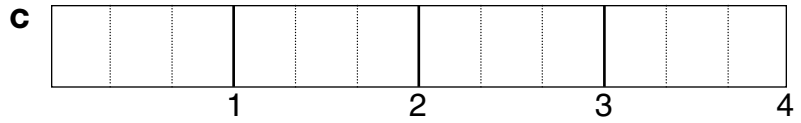
2. What is 4 divided by $\frac{1}{5}$?

$4 \div \frac{1}{5} = \square$



3. What is 4 divided by $\frac{1}{2}$?

$4 \div \frac{1}{2} = \square$



Complete each division or multiplication to find *a* and *b*.
Use fraction strips or grid paper for help.

4. $6 \div \frac{1}{3} = a$ $6 \times 3 = b$ _____

5. $7 \div \frac{1}{5} = a$ $7 \times 5 = b$ _____

6. $8 \div \frac{1}{4} = a$ $8 \times 4 = b$ _____

7. $2 \div \frac{1}{6} = a$ $2 \times 6 = b$ _____

Use your answers from Exercises 4–7 to answer Exercises 8–9.

8. What is a unit fraction?

9. What rule can you write about dividing a whole number by a unit fraction?

Divide. Check your answers.

10. $\frac{5}{6} \div \frac{1}{6}$ _____

11. $\frac{4}{5} \div \frac{1}{5}$ _____

12. $\frac{3}{7} \div \frac{1}{7}$ _____

13. $\frac{3}{8} \div \frac{1}{8}$ _____

14. $\frac{2}{7} \div \frac{1}{7}$ _____

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

16. $\frac{4}{6} \div \frac{2}{6}$ _____

17. $\frac{6}{9} \div \frac{3}{9}$ _____

18. $\frac{8}{12} \div \frac{4}{12}$ _____

19. $\frac{6}{10} \div \frac{2}{10}$ _____

20. $\frac{4}{5} \div \frac{3}{15}$ _____

21. $\frac{2}{3} \div \frac{3}{9}$ _____

Test Prep

22. Find $\frac{6}{7} \div \frac{1}{7}$. Explain how you found your answer.

23. Beth had 4 feet of rope. She divided each foot into pieces that measured $\frac{1}{4}$ of a foot. How many sections of rope did she then have?

A $\frac{1}{16}$

C 4

B 8

D 16

Model Division

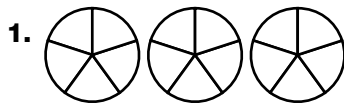
Find $9 \div \frac{1}{3}$.

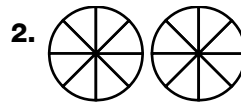
Step 1: Draw 9 whole circles.

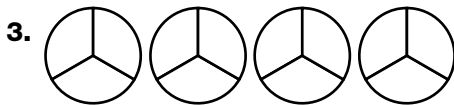
Step 2: Separate each circle into thirds.

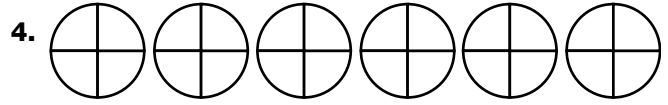
Step 3: Count how many thirds are in 9 circles. $9 \div \frac{1}{3} = 27$

Write the equation represented by each model. Write the answer in simplest form.









Divide. Check your answers.

5. $\frac{3}{5} \div \frac{1}{5}$

6. $\frac{5}{8} \div \frac{1}{8}$

7. $\frac{7}{10} \div \frac{1}{10}$

8. $\frac{5}{6} \div \frac{1}{6}$

9. $\frac{10}{12} \div \frac{2}{12}$

10. $\frac{4}{5} \div \frac{2}{5}$

11. $\frac{9}{10} \div \frac{3}{10}$

12. $\frac{6}{8} \div \frac{2}{8}$

Problem Solving

Show Your Work

13. Compare $4 \div \frac{1}{8}$ and $8 \div \frac{1}{4}$. Use a model to help explain your answer if necessary.
