Success Practice – Fluently Divide Rational Numbers

🎯 Learning Target: I can fluently divide positive and negative fractions.

Divide. Express in simplest form.

1. $\dfrac{2}{3} \div \dfrac{3}{2}$

2. $-\dfrac{2}{7} \div 2$

3. $\dfrac{3}{5} \div (-\dfrac{2}{5})$

4. $\dfrac{3}{8} \div (-2\dfrac{1}{2})$

5. $12\dfrac{5}{6} \div 2$

6. $-8 \div \dfrac{4}{5}$

7. One bag of potting soil contains $8\dfrac{1}{4}$ quarts of soil. How many clay pots can be filled from one bag of potting soil if each pot holds $\dfrac{3}{4}$ quart?	**8.** Lori is building a path in her back yard using square paving stones that are $1\dfrac{3}{4}$ feet on each side. How many paving stones placed end-to-end are needed to make a path that is 21 feet long?

9. $9 \div \dfrac{5}{9}$

10. $4 \div \dfrac{2}{3}$

11. $\dfrac{1}{14} \div 7$

12. $15 \div \dfrac{3}{5}$

13. $-\dfrac{9}{14} \div \dfrac{3}{4}$

14. $\dfrac{7}{8} \div 10$

15. $16 \div \dfrac{3}{4}$

16. $\dfrac{5}{9} \div \dfrac{2}{5}$

17. $-5\dfrac{1}{2} \div \left(-2\dfrac{1}{2}\right)$

18. $3\dfrac{1}{4} \div 5\dfrac{1}{2}$

19. $\dfrac{7}{10} \div \left(-\dfrac{3}{8}\right)$

20. $7\dfrac{1}{2} \div 3\dfrac{1}{2}$

21. A box of cereal contains $15\dfrac{3}{5}$ ounces of cereal. If a bowl holds $2\dfrac{2}{5}$ ounces of cereal, how many bowls of cereal are in one box?	**22.** Doug has a shelf $9\dfrac{3}{4}$ inches long for storing CDs. Each CD is $\dfrac{3}{8}$ inch wide. How many CDs will fit on one shelf?
23. Leon is mowing his yard, which is $21\dfrac{2}{3}$ feet wide. His lawn mower makes a cut that is $1\dfrac{2}{3}$ feet wide on each pass. How many passes will Leon need to finish the lawn?	**24.** Dena has a picture frame that is $13\dfrac{1}{2}$ inches wide. How many pictures that are $3\dfrac{3}{8}$ inches wide can be placed beside each other within the frame?