Name _____ Core ____ Date _____

2.2 Exercises

Check It Out
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1. OPEN-ENDED Write a fraction and its reciprocal. _____ _____

2. WHICH ONE DOESN'T BELONG? Which of the following does *not* belong with the other three? Explain your reasoning.

$\frac{1}{3}$ $\frac{1}{6}$ $\frac{2}{9}$ $\frac{1}{8}$

_____

_____

_____

_____

MATCHING Match the expression with its value.

3. $\frac{2}{5} \div \frac{8}{15}$ **4.** $\frac{8}{15} \div \frac{2}{5}$ **5.** $\frac{2}{15} \div \frac{8}{5}$ **6.** $\frac{8}{5} \div \frac{2}{15}$

A. $\frac{1}{12}$ **B.** $\frac{3}{4}$ **C.** 12 **D.** $1\frac{1}{3}$

3. _____ 4. _____ 5. _____ 6. _____

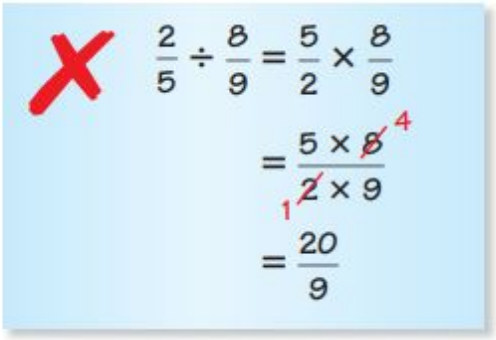
Divide. Write the answer in simplest form.

24. $\frac{4}{15} \div \frac{10}{13}$ _____

26. $10 \div \frac{5}{12}$ _____

ERROR ANALYSIS **Describe and correct the error in finding the quotient.**

28.



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_____

_____

Determine whether the numbers are reciprocals. If not, write the reciprocal of each number.

32. $9, \frac{1}{9}$ _____

34. $\frac{5}{6}, \frac{15}{18}$ _____

Complete the statement.

36. $\frac{5}{12} \times$ ☐ $= 1$

38. $7 \div$ ☐ $= 56$

56. PROBLEM SOLVING You have 6 pints of glaze. It takes $\frac{7}{8}$ of a pint to glaze a bowl and $\frac{9}{16}$ of a pint to glaze a plate.

a. How many bowls could you glaze? How many plates could you glaze?

Bowls: _____ **Plates:** _____

b. You want to glaze 5 bowls, and then use the rest for plates. How many plates can you glaze? How much glaze will be left over?

Plates: _____ **Glaze left over:** _____

c. How many of each object could you glaze so that there is no glaze left over? Explain how you found your answer.

Bowls: _____ **Plates:** _____ **Explain:**

_____

_____

_____

_____