Dividing by Unit Fractions

Fractions

Name: _____ Date: _____ Grade 6

1. **Draw a tape diagram that represents the expression $2 \div \frac{2}{5}$. Then find its value.** _____

2. **Which expression represents the quotient of 8 and $\frac{1}{4}$?**

A $8 \div \frac{1}{4}$

B $8 \cdot \frac{1}{4}$

C $\frac{1}{4} \div 8$

D $\frac{1}{4} \cdot 8$

3. **Complete the expression so that it is equal to $\frac{1}{4} \div \frac{3}{8}$.**

$\frac{1}{4} \div \frac{3}{8} = \frac{1}{4} \cdot$ _____

4. **Select <u>all</u> the expressions that could be used to find the quotient of $\frac{1}{3}$ and $\frac{1}{8}$.**

☐ **A.** $\frac{1}{3} \div \frac{1}{8}$

☐ **B.** $\frac{1}{3} \cdot 8$

☐ **C.** $8 \cdot \frac{1}{3}$

☐ **D.** $\frac{1}{8} \cdot 3$

☐ **E.** $\frac{1}{8} \div \frac{1}{3}$

☐ **F.** $\frac{1}{3} \cdot \frac{1}{8}$

5. **Determine each quotient. Show your thinking.**

a $3 \div \frac{1}{7}$

b $3 \div \frac{3}{7}$

c $3 \div \frac{6}{7}$

6. **A centimeter ruler is shown. Each small tick is 1 millimeter, or one tenth of a centimeter.**



a $1 \div \frac{1}{10}$ _____ **b** $4 \div \frac{1}{10}$ _____ **c** $15 \div \frac{1}{10}$ _____

7. **Ana says she can use the equation $2\frac{1}{4} \div \frac{1}{4} = 9$ to find $2\frac{1}{4} \div \frac{3}{4}$. She says the quotient will be tripled because $\frac{3}{4}$ is three times as much as $\frac{1}{4}$. Is Ana correct? Explain your thinking.**

8. **Raj says he can find $3 \div \frac{3}{4}$ by cutting 3 wholes into fourths and then making groups of 3 fourths. He says the quotient is 4. Is Raj correct? Explain your thinking.**