More Fraction Division Problems

Home Link 5-14

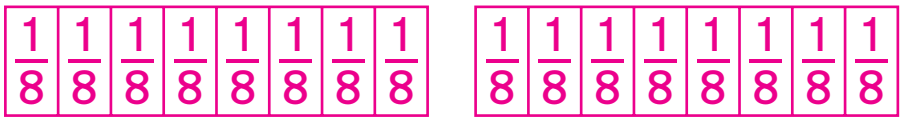
NAME DATE TIME

SRB 207–209

For Problems 1 and 2, write a number model using a letter for the unknown. Solve, showing your solution strategy. Summarize your work with a division number model. Check your answer using multiplication, and write a number sentence to show how you checked.

1. Charity is packing a 2-pound container of trail mix into bags for a camping trip. Each bag holds $\frac{1}{8}$ pound of trail mix. If Charity uses all 2 pounds of trail mix, how many $\frac{1}{8}$-pound bags will she have?

Number model: $2 \div \frac{1}{8} = b$, or $b * \frac{1}{8} = 2$ Sample model:



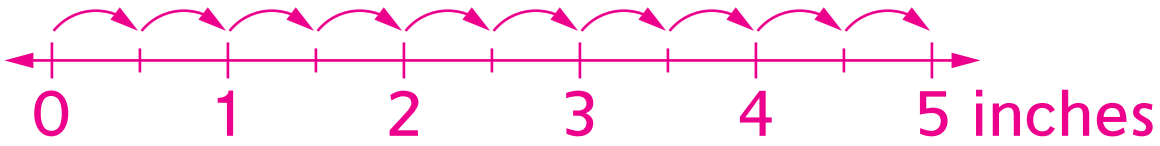
Charity will have 16 $\frac{1}{8}$-pound bags.

$2 \div \frac{1}{8} = 16$ (summary number model)

$16 * \frac{1}{8} = \frac{16}{8} = 2$ (check using multiplication)

2. Davis has a thin box that is 5 inches wide. He wants to use the box to store markers that are $\frac{1}{2}$-inch wide. If he lines up the markers side by side and uses the entire width of the box, how many markers can Davis fit in the box?

Number model: $5 \div \frac{1}{2} = m$, or $\frac{1}{2} * m = 5$ Sample work:



Davis will be able to fit 10 markers in the box.

$5 \div \frac{1}{2} = 10$ (summary number model)

$10 * \frac{1}{2} = \frac{10}{2} = 5$ (check using multiplication)

Practice

Make an estimate. Then solve. Show your work on the back of this page

3. $623 \div 8 \rightarrow$ 77 R7

Estimate: Answers vary.

4. $4{,}495 \div 50 \rightarrow$ 89 R45

Estimate: Answers vary.

5.NF.7, 5.NF.7b, 5.NF.7c, 5.NBT.6, SMP4