

MY Homework**Lesson 12****Interpret the Remainder****Homework Helper**Need help? connectED.mcgraw-hill.com

There are 46 students volunteering at a senior citizen community. There is a maximum of 6 students in each group. How many groups are needed?

Divide $46 \div 6$.

**1 Place the first digit.**

$$46 \div 6 \approx 7$$

Put 7 in the ones digit of the quotient.

$$\begin{array}{r} 7 \text{ R } 4 \\ 6 \overline{)46} \\ \underline{-42} \\ 4 \end{array}$$



2 Multiply. $6 \times 7 = 42$
Subtract. $46 - 42 = 4$
Compare. $4 < 6$



3 Write the remainder.
The remainder is 4.

**4 Interpret the remainder, 4.**

There are 4 students left over, which is not enough for another group of 6. But, they are volunteering.

So, there are a total of $7 + 1$, or 8 groups of students volunteering.

Practice

- Four employees of Papa Tony's Pizza are cleaning up at the end of a busy night. There is a list of 43 clean-up tasks that need to be completed. If each employee does the same number of tasks, how many tasks should each employee do? Solve. Explain how you interpreted the remainder.




Problem Solving

Solve Exercises 2 and 3. Explain how you interpreted the remainder.

2. Mrs. Flores is buying scrapbooks for her store. Her budget is \$350. How many of the scrapbooks shown can she buy?

3. Water stations will be placed every 400 meters of a 5-kilometer race. How many water stations are needed? (*Hint*: 1 kilometer = 1,000 meters)

4. **Mathematical PRACTICE**  **Model Math** Write a real-world problem that is represented by the division problem $38 \div 5 = 7 \text{ R}3$ in which it makes sense to round the quotient up to 8.

Test Practice

5. Three yards of fabric will be cut into pieces so that each piece is 8 inches long. How many pieces can be cut? (*Hint*: 1 yard = 36 inches)

- (A) 4 pieces with 4 inches left over
(B) 10 pieces with 6 inches left over
(C) 13 pieces with 4 inches left over
(D) 16 pieces with 6 inches left over

