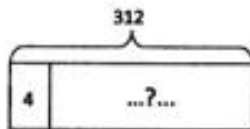


Name Jack

Date \_\_\_\_\_

Draw a tape diagram and solve. The first two tape diagrams have been drawn for you. Identify if the group size or the number of groups is unknown.

1. Monique needs exactly 4 plates on each table for the banquet. If she has 312 plates, how many tables is she able to prepare?

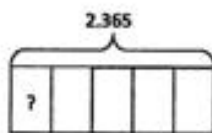


$$\begin{array}{r} 78 \\ 4 \overline{)312} \\ \underline{-28} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

Monique is able to prepare 78 tables.

The number of groups is unknown.

2. 2,365 books were donated to an elementary school. If 5 classrooms shared the books equally, how many books did each class receive?

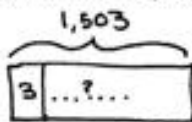


$$\begin{array}{r} 473 \\ 5 \overline{)2365} \\ \underline{-20} \phantom{0} \\ 36 \\ \underline{-35} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

Each class received 473 books.

The group size is unknown.

3. If 1,503 kilograms of rice was packed in sacks weighing 3 kilograms each, how many sacks were packed?



$$\begin{array}{r} 501 \\ 3 \overline{)1503} \\ \underline{-15} \phantom{0} \\ 00 \\ \underline{-0} \\ 03 \\ \underline{-3} \\ 0 \end{array}$$

501 sacks were packed.

The number of groups is unknown.



COMMON CORE

Lesson 31:  
Date: 8/22/13

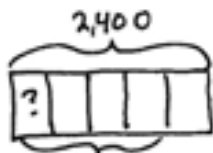
Interpret division word problems as either number of groups unknown or group size unknown.

engage<sup>ny</sup>

3.G.6B



4. Rita made 5 batches of cookies. There were a total of 2,400 cookies. If there were the same number of cookies in each batch, how many cookies were in 4 batches?



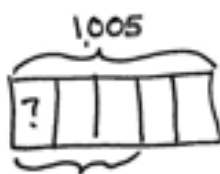
$$\begin{array}{r} 480 \\ 5 \overline{) 2400} \\ \underline{-20} \phantom{0} \\ 40 \\ \underline{-40} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

$$\begin{array}{r} 480 \\ \times 4 \\ \hline 1920 \end{array}$$

There were 1,920 cookies in 4 batches.

The group size is unknown.

5. Every day, Sarah drives the same distance to work and back home. If Sarah drove 1,005 miles in 5 days, how far did Sarah drive in 3 days?



$$\begin{array}{r} 201 \\ 5 \overline{) 1,005} \\ \underline{-10} \phantom{0} \\ 00 \\ \underline{-0} \\ 05 \\ \underline{-5} \\ 0 \end{array}$$

$$\begin{array}{r} 201 \\ \times 3 \\ \hline 603 \end{array}$$

Sarah drove 603 miles in 3 days.

The group size is unknown.

