

Inez is preparing snacks for 4 classes. She needs to divide 93 apples into 4 groups.



She will use long division and a model to solve the problem.

**Step 1:**

Inez writes the number of groups she wants to make here.

$$\begin{array}{r} 2 \\ 4 \overline{) 93} \end{array}$$

She can put 2 tens blocks in each group ( $9 \div 4 = 2$ ).

There are 9 tens blocks in the model.

There are 3 ones blocks.

Inez makes a model of the problem:

**$93 = 9 \text{ tens} + 3 \text{ ones}$**

Inez can divide 8 of the 9 tens blocks into 4 equal groups of size 2:

1. Inez has written a division statement to solve a problem. How many groups does she want to make? How many tens blocks and how many ones would she need to model the problem?

- |                        |                        |                        |                        |
|------------------------|------------------------|------------------------|------------------------|
| a) $3 \overline{) 85}$ | b) $4 \overline{) 92}$ | c) $5 \overline{) 86}$ | d) $2 \overline{) 87}$ |
| groups <u>3</u>        | groups _____           | groups _____           | groups _____           |
| tens blocks <u>8</u>   | tens blocks _____      | tens blocks _____      | tens blocks _____      |
| ones <u>5</u>          | ones _____             | ones _____             | ones _____             |

2. How many tens blocks can be put in each group? Use division or skip counting to find the answers.

- |   |   |   |   |   |
|---|---|---|---|---|
| a) $3 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 7 & 5 \\ \hline \end{array}}$ | b) $4 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 3 \\ \hline \end{array}}$ | c) $5 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 6 & 2 \\ \hline \end{array}}$ | d) $3 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 8 \\ \hline \end{array}}$ | e) $4 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 8 & 2 \\ \hline \end{array}}$ |
| f) $2 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 8 & 5 \\ \hline \end{array}}$ | g) $3 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 8 & 7 \\ \hline \end{array}}$ | h) $8 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 1 \\ \hline \end{array}}$ | i) $6 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 8 & 3 \\ \hline \end{array}}$ | j) $5 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 2 \\ \hline \end{array}}$ |

3. How many groups have been made? How many tens are in each group?

- |   |   |   |   |
|---|---|---|---|
| a) $3 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 7 & 5 \\ \hline \end{array}}$ | b) $2 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 1 \\ \hline \end{array}}$ | c) $4 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 9 & 5 \\ \hline \end{array}}$ | d) $2 \overline{) \begin{array}{ c c } \hline \square & \square \\ \hline 7 & 3 \\ \hline \end{array}}$ |
| groups <u>3</u>   | groups _____  | groups _____  | groups _____  |
| number of tens in each group <u>2</u>   | number of tens in each group _____  | number of tens in each group _____  | number of tens in each group _____  |