

Igloo Iceblocks

ACTIVITY

It's igloo-building time again! Esther the Eskimo and her friends are cutting out large cubes of ice to build their homes. All their sleighs are the same size.

1. Esther has cut 60 cubes ready to stack on her sleigh. Each layer needs to have the same number and arrangement so that the sleigh is balanced evenly. Esther realises that the sleigh is not long enough to stack the cubes in a single layer. So she cannot have a $60 \times 1 \times 1$ arrangement. How many other ways might she be able to stack the cubes so that she makes one trip only?



2. Esther's cousin Kevin has 180 cubes to stack. In what ways could he stack the cubes so that he makes one trip only?



3. Brendan has 97 ice cubes. Can he stack his cubes in even layers so that he makes one trip only? Explain your answer.

