

Squirreling It Away

Level D

Three squirrels are storing acorns for the winter. There is a pile of 24 acorns for them to store, and they are taking trips back and forth from the pile of acorns to their nests. Each squirrel can carry different amounts of acorns.

- Brown squirrels can carry 2 acorns at a time.
- Gray squirrels can carry 3 acorns at a time.
- Black squirrels can carry 5 acorns at a time.

The squirrels are rather smart. They realize that they can carry less than their maximum loads. How many different ways could the squirrels divide up 24 acorns?

Explain your solution.

