

Chapter Review

Combination Photo Opportunity

You, your parent, and 10 other family members bought two rolls of film (with 36 exposures each) so you could take group photos during a recent trip to the beach.

You and your parent must figure out how to take group pictures while you are at the beach. Should you take pictures in groups of two, so each person will have their picture taken with every other person in the group exactly once? Will you have enough film for groups of two? Would groups of three or larger be better? Answer the questions below with your parent to find out.

1. How many groups of two family members each can be formed from the 12 members?

2. How many groups of three family members each can be formed from the 12 members?

3. How many groups of four family members each can be formed from the 12 members?

4. For which of these size groups do you have enough film?

Answers are located on page 115.