Planning Scenarios - Teacher’s Guide

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| Commutative | **Associative** | **Distributive** |
| Mia is planning a school dance and needs to buy 9 sets of fairy lights for the event. Each set costs $12. How much in total will she spend on fairy lights if she buys all 9 sets at once? How much would it cost if she bought 12 sets, each at the same price? | The 8th-grade class is planning a school dance. They need to arrange tables for 6 students each to sit at. If they have 4 tables set up initially and need to add 3 more tables, how many total students can sit at the tables altogether? | Emma is planning a school dance and needs to buy decorations. She wants to purchase 4 sets of balloons, with each set containing 8 balloons. If each balloon costs $0.50, how much will Emma spend in total on the balloons? |
| The Event Planning team is organizing a movie night for the students. They are purchasing 5 boxes of popcorn for $3 each and 4 boxes of soda for $2 each. How much will they spend in total on snacks for the movie night? Would the total cost change if they bought 4 boxes of popcorn and 5 boxes of soda instead? | A group of students is organizing a field trip to an amusement park. They are dividing themselves into groups of 5 to make it easier to plan. If there are 7 groups of students initially and they decide to combine 4 more groups, how many students will be in attendance in total? | Jacob is organizing a charity event and needs to order 15 boxes of party favors. Each box contains 12 small toys. If each small toy costs $0.75, how much will Jacob need to pay for all the party favors? |
| For the school's graduation ceremony, there are 15 rows of chairs to be set up, with each row having 10 chairs. If each chair costs $8, how much will it cost to set up all the chairs for the ceremony? Would the cost be different if there were 10 rows of chairs, each with 15 chairs instead? | The school cafeteria is preparing lunch boxes for a class picnic. Each box contains 8 sandwiches. If they have already packed 5 boxes but need to prepare 4 more boxes, how many sandwiches will need to be packed in total considering all the boxes together? | Sarah is arranging a bake sale and needs to buy ingredients for 5 batches of cookies. Each batch requires 3 cups of flour, which costs $1.20 per cup. How much will Sarah spend on flour for all the batches of cookies? |