

Lesson 7 Problem-Solving Practice

Equivalent Expressions

1. **AMUSEMENT PARKS** Four friends went to a local amusement park. Three of the friends bought ride tickets for x dollars, plus a game pass for \$10. The other friend bought just a ride ticket. Write and simplify an expression showing the amount of total money spent.

3. **AGE** Julianna is x years old. Her sister is 2 years older than her. Her mother is 3 times as old as her sister. Her Uncle Rich is 5 years older than her mother. Write and simplify an expression representing Rich's age.

ICE CREAM For Exercises 5 and 6, use the following information provided in the table.

Toppings	Cost
Ice Cream (Scoop)	x dollars
Sprinkles	\$0.25
Hot Fudge	\$0.75
Whipped Cream	\$0.50
Nuts	\$0.35

5. Ten kids each order a scoop of ice cream. Five of the kids add sprinkles, 3 add nuts, and 2 add nothing extra. Write and simplify an expression that represents the total cost.

2. **ALGEBRA** Translate and simplify the expression: the sum of fifteen and a number plus twelve.

4. **REASONING** In the expression $30 + 40 + 70$, Jillian added 30 and 40 and then 70, while Samuel added 30 and 70 and then 40. Who is correct? Explain your reasoning.

6. Write and simplify an expression that represents the total cost of ordering nuts on a scoop of ice cream and then adding hot fudge.

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