**Problem-Solving Practice**

***Equivalent Expressions***

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