Mental Math: Percent of a Number

Solve.

1. Carolyn’s family had a family reunion. In all, 50 family members attended. Of those who attended, 10% were grandparents. How many grandparents were at the family reunion?
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   \frac{1}{10} \times \frac{50}{1} = \]

2. Mikko’s new organizer has 150 pages. 20% of the pages are blank sheets for notes. How many pages are blank? Hint: Find 10% then multiply by 2 to find 20%.

3. Edmund is painting his living room walls. The smallest wall measures 64 square feet. He can paint 75% of this wall with one small can of paint. Use mental math to determine how many square feet he can paint with one can of paint.

4. A family of four had dinner at their favorite Mexican restaurant. The cost of the dinner was $78. If the family plans to leave a 20% tip, how much tip will the waiter receive?

5. Audrey’s school put on a fun fair to raise money for charity. Audrey’s job was to calculate donations based on tickets sold. The tickets to the fair were $3 each, and 275 people attended. If the school was giving 15% of the ticket sales to charity, how much money were they able to give?

6. Zander was in charge of calculating profit at the refreshments booth. The booth offered lemonade at 50 cents a glass, cookies at 3 for $1.00, and popcorn at 75 cents a bag. They sold 175 glasses of lemonade, 300 cookies, and 150 bags of popcorn. Of the money they received, 55% went toward paying for ingredients, leaving the remainder for profit. How much profit did they make on refreshments?