

WRITING EQUATIONS FOR PROPORTIONAL RELATIONSHIPS: WORD PROBLEMS**Write an equation for each proportional relationship by finding the constant of proportionality.**

1. When Trayvon goes to the batting cages, he uses 2 tokens for every 10 pitches. There is a proportional relationship between the number of tokens Trayvon uses, x , and the number of pitches, y .

Equation:

2. Devon's favorite applesauce recipe calls for 2 teaspoons of cinnamon for every 3 apples. There is a proportional relationship between the number of apples, x , and the amount of cinnamon, y .

Equation:

3. Alicia makes 40 ice cubes with 4 ice trays. There is a proportional relationship between the number of trays Alicia uses, x , and the total number of ice cubes she makes, y .

Equation:

4. Xander pays \$8 for 10 skateboard stickers. There is a proportional relationship between the number of stickers Xander buys, x , and the total cost, y .

Equation:

5. Brody is laying new tile flooring in his hallway. For every 2 feet in the hallway, he places 8 tiles. There is a proportional relationship between the length of the hallway Brody covers, x , and the number of tiles he needs, y .

Equation:

6. Lia earns \$39 for 3 hours of babysitting. There is a proportional relationship between the number of hours Lia babysits, x , and the total amount of money she earns, y .

Equation:

7. A cookie recipe makes 48 cookies using 4 cups of sugar. There is a proportional relationship between the number of cups of sugar, x , and the total number of cookies, y .

Equation:

8. Landry is saving money for a new laptop. After 9 months, he has saved \$216. There is a proportional relationship between the number of months, x , and the total amount of money Landry has saved, y .

Equation:

9. Dominic buys 10 boxes of raisins for \$5. There is a proportional relationship between the number of boxes of raisins he buys, x , and the total cost, y .

Equation:

10. Nicolette pays \$35.94 for 6 months of a music streaming service. There is a proportional relationship between the number of months, x , and the total cost, y .

Equation: