Name Date

10.4



Puzzle Time

What Is An Ant Dictator?

Write the letter of each answer in the box containing the exercise number.

Use the Fundamental Counting Principle to find the total number of possible outcomes.

Answers

 A. 

 R. 

 C. 

 Y. 

 A. 

 T. 

 K. 

 T. 

 N. 

 1. A restaurant offers five flavors of milkshakes. There are
three sizes for each flavor.

 2. Students were asked to schedule one from each category: chorus or band; French, Spanish, or German; art, wood shop, or physical education.

 3. When ordering a birthday cake, you will need to choose
one from each category: white, chocolate, or marble cake; raspberry or strawberry filling; white or buttercream frosting;  sheet cake.

 4. Your seventh grade class is selling apparel with the school mascot to raise money for a class trip. The sizes are small, medium, large, or extra large. You can choose a T-shirt, a long-sleeved shirt, or a sweatshirt.

 5. Each school lunch includes a choice of a main entrée, vegetable, fruit, and beverage. Today, the main entrées are spaghetti, fish sandwich, or cheeseburger. The vegetables
are corn, green beans, or carrots. The fruit is an apple or a
banana. The beverages are milk or juice.

 6. You roll a number cube and flip a coin. What is the probability
of rolling an even number and flipping tails?

 7. You roll a number cube and flip a coin. What is the probability
of rolling a number less than 5 and flipping tails?

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 2 |  | 7 | 6 | 4 | 1 | 3 | 5 |
|  |  |  |  |  |  |  |  |