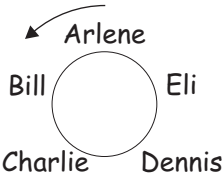





Warm-Up 5

- _____ What is the smallest positive integer that has factors of 16, 18 and 24?
- _____ Twenty-five percent of what number is equal to 50% of 200?
- _____ cards Joe, Jim, John and Josh collect baseball cards. Joe's collection contains 200 cards. Jim's collection contains 50 more than $\frac{3}{5}$ of Joe's collection. John's collection contains 75 more than $\frac{1}{2}$ of Jim's. Josh's collection has $\frac{1}{2}$ of the sum of Jim's and John's collections. How many cards do the four boys have in all?
- _____ orders Four students (Yanni, William, Clara and Anna) will stand in a line. If William and Yanni must stand next to each other, and Clara must be first, in how many possible orders can the four students stand?
- _____ Zoie and her five friends are playing "Duck, Duck, Goose." Zoie will start her turn by tapping Arlene first and continuing around the outside of the circle counter-clockwise, tapping each person once as she passes by them. If Zoie does 52 "Duck" taps before saying "Goose" on the 53rd tap, which of her friends will get the "Goose" tap?
- _____ degrees The measures of the angles of a particular convex quadrilateral are in the ratio 3:5:7:10. What is the degree measure of the largest angle?
- _____ A particular line passes through (9,0) and has a negative slope. If the line's y-intercept is a single-digit prime number, what is the sum of all the possible y-intercepts?
- _____ % Sassy Fashions buys dresses at wholesale and then marks them up for retail sale. They recently sold a dress at a 40% discount off of their marked-up price. What percent mark-up did they originally apply to the dress if they broke even on the sale? Express your answer to the nearest whole percent.
- _____ dimes Alice has saved \$5.00 in dimes, quarters and half-dollars. She finds that she has 30 coins altogether and there are four times as many quarters as there are half-dollars. How many dimes does Alice have?
- _____ integers How many integers from 1 to 1000, inclusive, are divisible by neither 2 nor 5?