

# Polar Puzzle

1 What do you call a baby polar bear?

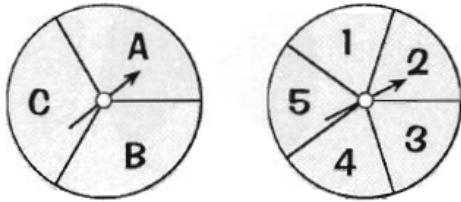
140 18 9229 324 16 15 196 16 158,184 144

2 What do polar bears eat for lunch?

324 16 15 30 144 158,184 27 125 15 27 12

❄ Find each answer in the code. Every time it appears, write the letter of the exercise above it. ❄

E. If you spin each of these spinners once, how many possible outcomes are there?



S. Zoo officials are trying to decide on a name for their new baby polar bear. For a first name, they like either Buddy, Cubby, Snowball, or Alabaster. For a middle name, they like either Frosty, Flake, or Freeze. How many different choices do they have?

N. Java needs a roll of film for her 35-mm camera. Based on the information in the table, how many different kinds of film can she buy?

Speed	100, 200, or 400
Exposures	12, 24, or 36
Type	print or slide

U. License plates in Toontown consist of three letters followed by a digit from 1 to 9, such as **AAA1**. How many different license plates are possible?

G. Dregg guessed the answers to three multiple-choice questions on a test. If each question had 5 different choices, how many different answer combinations were there?

A. Argyle has 10 T-shirts and 7 pairs of shorts that he wears with either sandals or sneakers. If all the colors and patterns coordinate, how many different outfits can he make?

I. Balloons or Bust sells balloons in 18 different colors. Each color comes in 3 sizes. They will inflate the balloon and tie on a gold, green, red, blue, pink, or purple ribbon. How many different choices are there?

R. Camp Cornflake has 3 activity periods with the choices shown. How many different schedules are possible?

Camp Cornflake		
PERIOD 1	PERIOD 2	PERIOD 3
leatherwork	archery	canoeing
pottery	riflery	water skiing
basketry	nature study	swimming

B. A 4-course dinner special consists of soup or salad, a main dish, dessert, and coffee or tea. If there are 9 different main dishes and 4 different desserts from which to choose, how many different dinner specials can be ordered?

C. A computer is sold with or without a monitor, with or without a keyboard, with or without a DVD player, and with or without a Zip drive. How many different choices are there?

# Did You Hear About . . .

1	2	3	4	5	6	7
8	9	10	11	12	13	14
						?

Find each correct answer in the answer column. Write the word next to the answer in the box containing the exercise number.

Find the value of the expression.

- 1  $6P_6$       2  $6P_3$       3  $15P_4$       4  $100P_2$

Solve.

- Kevin Klodrite rented three movies from his local video store, but he can't decide in what order to watch them. How many choices does he have?
- You have a homework assignment in each of 4 different subjects tonight. In how many different orders can you do the four assignments?
- In how many different ways can a president, vice president, and treasurer be elected from a class of 30 students?
- A radio disc jockey has a library of 250 different songs from which to choose. In how many different ways can he program the next two songs he will play?
- In how many different ways can 7 stuffed animals be arranged side by side on a shelf?
- If a school offers 11 different subjects, how many different schedules of 5 classes are possible?
- Six hundred people are competing in a triathlon. There is a \$1000 prize for first and a \$500 prize for second. How many different first-second place finishes are possible?
- How many different batting orders are possible for the nine players on a baseball team?
- Surelock Lock Company makes locks with 50 numbers printed on the dial. A lock is opened by dialing three different numbers in a certain order. How many different combinations are possible?
- In Exercise #13 above, how many different combinations would be possible if the three numbers do *not* have to be different (for example, 20-20-20 could be a combination)?

9750 • SHEETS
362,880 • IN
32,760 • BED
64,880 • KISSED
55,440 • GOT
24 • FELL
117,600 • THE
120 • TWO
238,500 • BITING
150,000 • FALL
62,250 • LOVE
32 • CRAWLED
359,400 • MARRIED
6 • WHO
720 • THE
18,540 • OUT
24,360 • IN
125,000 • SPRING
402,720 • AFTER
9900 • BUGS
5040 • AND