

3. Career Women

Five women (Ann, Edna, Gretchen, Helga, and Irene), whose last names are Jostyn, Kaufmann, Letterman, Marling, and Preston, have different occupations (caterer, dress designer, newspaper editor, business manager, and fashion model), are different ages (27, 31, 35, 38, and 42), and have different incomes (\$30,000, \$34,000, \$40,000, \$60,000, and \$80,000).

Match up everything from the clues below.

1. The income of the dress designer is twice as much as that of Gretchen, who is not Kaufmann.
2. The 38-year-old has a higher income than the 31-year-old but a lower income than the 42-year-old.
3. The fashion model, who is not 35, has a higher income than Irene has.
4. Letterman, whose income is less than that of the business manager but more than the caterer's, is not Helga or Ann.
5. The oldest person's income is not the most, and the youngest person's income is not the least.
6. Preston earns more than the dress designer and the business manager.
7. Marling's income is more than Irene's but less than Ann's.
8. Helga, whose income is less than the dress designer's, is older than Kaufmann, who is younger than the newspaper editor.
9. Ann is older than Edna.

Chart for Problem 3

	Jostyn	Kaufmann	Letterman	Marling	Preston	caterer	designer	editor	manager	model	27	31	35	38	42	\$30,000	\$34,000	\$40,000	\$60,000	\$80,000	
Ann																					
Edna																					
Gretchen																					
Helga																					
Irene																					
caterer																					
designer																					
editor																					
manager																					
model																					
27																					
31																					
35																					
38																					
42																					
\$30,000																					
\$34,000																					
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ANSWER

NAME	OCCUPATION	AGE	INCOME
Ann Kaufmann	dress designer	35	\$60,000
Edna Preston	fashion model	27	\$80,000
Gretchen Jostyn	caterer	31	\$30,000
Helga Marling	business manager	42	\$40,000
Irene Letterman	newspaper editor	38	\$34,000

The dress designer's income is \$60,000 or \$80,000 (1) but not \$80,000 (6), so it is \$60,000. Then Gretchen's income is \$30,000 (1), and Preston's is \$80,000 (6).

Gretchen, who has the lowest income, is not Preston (\$80,000), Letterman (4), Marling (7), or Kaufmann (1), so she is Jostyn. Helga is not Letterman (4), Kaufmann (8), or Preston (8, highest salary), so she is Marling.

The business manager earns less than \$60,000 (6, dress designer) but more than \$34,000 (4), so she earns \$40,000. Then Letterman earns \$34,000 and the caterer earns \$30,000 (4), so Jostyn is the caterer.

All salaries are now accounted for, so Helga Marling is either the dress designer or the business manager. She isn't the dress designer (8), so she is the business manager. Her income is more than Irene's (7), so Irene's income is \$34,000, and so Irene is Letterman.

The fashion model's income is more than \$34,000 (3, Irene). It isn't \$40,000 (business manager) or \$60,000 (dress designer), so it is \$80,000, and so Preston is the fashion model. Her age is not 31 or 38 (2) or 42 (5) or 35 (3), so she is 27, the youngest. Then she isn't Ann (9) or Irene (3), so she is Edna. The dress designer isn't Irene (\$34,000), so Ann is the dress designer, and her last name is Kaufmann. This leaves Irene as the newspaper editor.

Since Preston is 27, Kaufmann is at least 31. Helga and Irene (newspaper editor) are both older than Kaufmann (8), so Kaufmann isn't 38 or 42. She has the second-highest salary, so she isn't 31 (2). Then Kaufmann is 35. Then from clue 2, Gretchen is 31, Irene is 38, and Helga is 42.