

Challenge

Family Business

Mr. Six has started a business. He wants to hire all of his relatives who are count-bys of 6. Whom should he hire? Circle all of the numbers that are count-bys of 6.

60	7	9	12	6	28	
3	42	8	54	21	18	48
36	4	30	56	19	24	

One day, Mr. Six hires Sally Seven. Before long, all of her relatives who are count-bys of 7 have jobs at Mr. Six's store, too. Whom did Mr. Six hire from Sally's family? Circle all of the numbers that are count-bys of 7.

62	56	34	21	15	14	
8	17	49	38	55	26	70
67	42	19	63	32	28	

- Which number is a relative of both Mr. Six and Sally Seven? How are they related? Write four related equations.

- Mr. Six has a manager in his store. This manager is a count-by of six and seven, and he is less than 50. Who is the manager?

- Freddie Four wants to work at Mr. Six's store. Some of Freddie's family members already work at the store. Who at the store is a count-by of 4 and 6? 4 and 7? Are any workers count-bys of 4, 6, and 7?

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60 7 9 12 6 28
 3 42 8 54 21 18 48
 36 4 30 56 19 24

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62 56 34 21 15 14
 8 17 49 38 55 26 70
 67 42 19 63 32 28

1. Which number is a relative of both Mr. Six and Sally Seven? How are they related? Write four related equations. **Possible answers shown.**

$$42; 6 \times 7 = 42, 7 \times 6 = 42,$$

$$42 \div 7 = 6, 42 \div 6 = 7$$

2. Mr. Six has a manager in his store. This manager is a count-by of six and seven, and he is less than 50. Who is the manager?

manager: 42

3. Freddie Four wants to work at Mr. Six's store. Some of Freddie's family members already work at the store. Who at the store is a count-by of 4 and 6? 4 and 7? Are any workers count-bys of 4, 6, and 7?

12, 24, 36, 48, 60; 28, 56; no