Hidden Butterfly

The butterfly is hiding behind one of the numbers below. Use the clues to help you figure out which number it's behind. As you read each clue, cross out the numbers that don't fit the clue. When you finish all of the clues, there should only be one number left. Read each clue again to make sure the number works for all of the clues.

1. The number is less than 30.
2. The number is greater than 18.
3. The butterfly is behind an even number.
4. The sum of the digits is 10.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

answer:

The butterfly is hiding behind the number

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1. The number is less than 50.
2. The number is greater than 29.
3. When you count by 5s, you say the number..
4. The sum of the digits is 8.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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1. The number is less than 35.
2. The number is greater than 10
3. When you count by 5s, you say the number..
4. The sum of the digits is 6.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
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1. The butterfly is hiding behind an even number.
2. When you count by 5s, you say the number..
3. The sum of the digits is the same as the number of sides of a square.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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1. When you count by 5s, you say the number..
2. The difference of the digits is 3.
3. The sum of the digits is also 3.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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1. When you count by 5s, you say the number..
2. The difference of the digits is 1.
3. The sum of the digits is 9.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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answer key

1. **28**

2. **35**

3. **15**

4. **40**

5. **30**

6. **45**

suggestions:

- Make sure that students check their answers by reading each clue again to make sure their answer fits the clue.
- Pair students to work on the problems. One student reads each clue, then they discuss which numbers should be crossed out. The other student crosses out the numbers on the grid.

extension:

- Provide a blank template to students and have them write clues for their own problem. They may exchange problems with a partner to peer check the clues and answer.
- Publish these original problems with student name and year. Use these problems as do-nows to practice skills.

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1._____

2. _____

3. _____

4. _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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