



Space Groups and Arrays



Pair them up. Count the rows. Add equal groups.

Name: _____

Date: _____

Section 1: Odd or Even?

Pair up the objects. If every object has a partner, the number is even. If one is left over, the number is odd.



7 stars: 3 pairs and 1 left over. 7 is odd.

1



How many?

ODD

EVEN

2

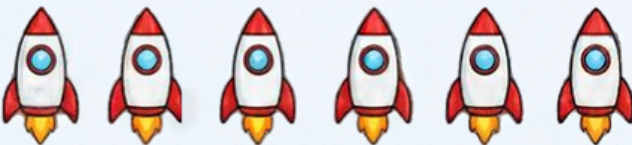


How many?

ODD

EVEN

3



How many?

ODD

EVEN

4

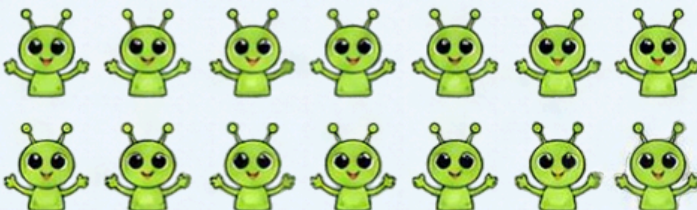


How many?

ODD

EVEN

5



How many?

ODD

EVEN



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Section 2: Count the Array

An array has rows and columns. Count how many objects there are in all.

Example:



3 rows, 4 in each row.
12 stars in all.

1



___ rows, ___ in each row. Total:

2



___ rows, ___ in each row. Total:

3



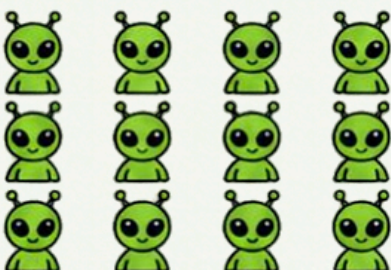
___ rows, ___ in each row. Total:

4



___ rows, ___ in each row. Total:

5



___ rows, ___ in each row. Total:



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Example:



$$4 + 4 + 4 = 12$$

1.



$$\square + \square + \square = \square$$

2.



$$\square + \square + \square + \square = \square$$

3.



$$\square + \square = \square$$

4.



$$\square + \square + \square + \square + \square = \square$$

5.



$$\square + \square + \square + \square = \square$$



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12 is even. $6 + 6 = 12$.

Section 4: Even Numbers as Doubles

An even number can be split into two equal addends. Fill in the boxes.

1. $8 =$ $+$

2. $14 =$ $+$

3. $10 =$ $+$

4. $18 =$ $+$

5. Can 15 be written as two equal addends?

Yes

No



Answer Key



Teacher Copy

Section 1: Odd or Even?

1. 8, even
2. 13, odd
3. 10, even
4. 17, odd
5. 14, even

Section 2: Count the Array

1. 10
2. 9
3. 20
4. 15
5. 16

Section 3: Add the Rows

1. $5 + 5 + 5 = 15$
2. $3 + 3 + 3 + 3 = 12$
3. $4 + 4 = 8$
4. $2 + 2 + 2 + 2 + 2 = 10$
5. $4 + 4 + 4 + 4 = 16$

Section 4: Even Numbers as Doubles

1. $4 + 4$
2. $7 + 7$
3. $5 + 5$
4. $9 + 9$
5. No, 15 is odd

