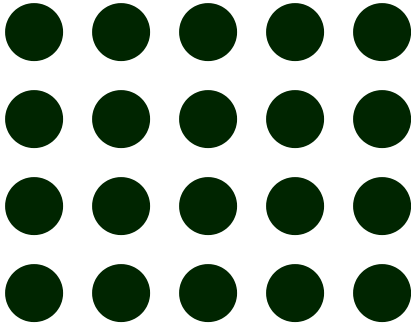


Identify a whole number as even or odd

NAME	DATE	SCORE / 10
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1 Is the number of dots below even or odd?



☐ Even ☐ Odd

2 A group of 25 children goes on a trip. Can all the children walk in pairs, with no child left out?

☐ Yes, 25 is even ☐ No, 25 is odd

3 “A number that ends in 0 is even.” Is this always, sometimes or never true?

☐ Always true ☐ Sometimes true ☐ Never true

4 Which of these numbers are even?

Tick every answer that is true.

- ☐ **A** 39
- ☐ **B** 35
- ☐ **C** 28
- ☐ **D** 82
- ☐ **E** 78

5

“An even number plus an odd number is even.” Is this always, sometimes or never true? Use pairs of dots, such as $8 + 5$, to explain how you know.

6

Is 38 even or odd?

☐ Odd, 38 ends in 8 ☐ Odd, 38 starts with 3 ☐ Even, 38 ends in 8

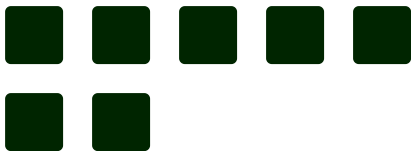
7

Ana has 76 socks. Can Ana put all the socks in pairs, with none left over?

☐ Yes, 76 is even ☐ No, 76 is odd

8

Is the number of squares below even or odd?



☐ Even ☐ Odd

9

Is 45 even or odd?

☐ Even, 45 starts with 4 ☐ Even, 45 ends in 5 ☐ Odd, 45 ends in 5

10

Is 96 even or odd?

☐ Odd, 96 ends in 6 ☐ Even, 96 ends in 6 ☐ Odd, 96 starts with 9

Identify a whole number as even or odd

1 Even

3 Always true

6 Even, 38 ends in 8

8 Odd

10 Even, 96 ends in 6

2 No, 25 is odd

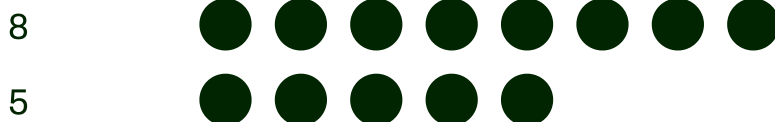
4 C, D, E

Tick exactly these: C: 28; D: 82; E: 78. One missed or one extra is wrong.

7 Yes, 76 is even

9 Odd, 45 ends in 5

5 A written explanation



A model answer: Never true. The even number makes pairs with none left over. The odd number makes pairs with one left over. Put together, there is still one dot left over, so the sum is always odd.

What counts as right: Counts as right if it makes these points: (1) the answer, never true; (2) the even number makes pairs with none left over; (3) the odd number leaves one dot over, so the sum always has one left over and is odd.

Checking one example, such as $3 + 5 = 8$, does not count on its own: it shows one case, not every case.