Odd and even numbers and their patterns

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A sample from this topic. The complete topic collection contains three different resources and worked solutions.

Show your thinking using words, working or a labelled drawing. Use the explanations and example first.

What you will practise

• Odd and even numbers and their patterns

• Explain and check an answer with an appropriate representation.

Useful starting skills: Use objects, drawings or a number line to explain a simple idea.

An even collection can be divided into pairs with none left over. An odd collection leaves one unpaired object. Look at the ones digit to identify the pattern.

Use pairs to explain parity rules. Two odd collections each supply one unmatched object; joining those two objects creates another pair, so their sum is even.

Worked example

Is the sum of two odd numbers odd or even?

Each odd number contains pairs plus one extra.

The two extras make a pair, so every object is now paired.

Answer: Even

Try it yourself

Name: _____ Date: _____

1. Is 24 odd or even? Explain using pairs.

2. Is 37 odd or even? Explain using pairs.

Answers and explanations

Check the method as well as the final answer. An alternative correct method is also valid.

1. Even

12 pairs use all objects.

2. Odd

18 pairs leave one object unmatched.

Curriculum reference: VC2M3N01

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