

Maths Boggle: differences

Strand

Counting and understanding number

Learning objective

Find the difference between a positive and a negative integer

Type of starter

Refine

Whiteboard tools

- Press 'new' to rattle the Boggle dice.
- Change the target by selecting a new question from the 'options' menu.
- Highlight each dice by pressing it once (to remove the highlight, press again).
- Press 'new' for a new set of numbers.
- Use the 'notepad' to show calculations.

What to do

The aim of this activity is to work out differences between positive and negative integers on the grid.

To begin the game, select a question from the 'options' menu or, if you prefer, prepare your own question. Once this has been understood, the dice are 'rattled' to reveal a random selection of numbers. In pairs, or individually, the children set out to find the answer by working out the differences. Challenge individual children to come to the board to write their calculations on the on-screen notepad. Highlight particular dice by pressing on them, for demonstration purposes.

Differentiation

Less confident: identify pairs of integers that have the largest differences. Suggest that the children round the numbers before estimating and calculating the actual differences.

More confident: extend the activity by asking the children to total strings (rows or columns) of positive and negative integers.

Key questions

- Find the difference between ___ and ___.
- How did you work out the difference? What methods did you use to check your answers?

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SCHOLASTIC

Find the difference between two negative integers in any row.

-43	38	2	15	8
10	-36	36	-14	15
23	-27	36	3	33
44	-23	11	-39	-29
-47	-34	-27	-1	-34

NEW

NOTEPAD

back options what to do

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print screen main menu

'new'
Press to rattle dice

'options'
Select question from menu

dice
Press to highlight

'notepad'
Press to write calculations

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