

Chapter 1 – Rich task 2 - True or false

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2 True or false

- Investigate if these are **always true**, **sometimes true** or **never true**.

a

When you multiply an even number by 6 the last digit stays the same.

Example $6 \times 28 = 168$

b

When two odd numbers are multiplied together the answer is always an odd number.

Example $5 \times 37 = 185$

Arrays might help you.



c

To multiply a two-digit number by 11 you can always follow these steps to get the correct answer.

step 1 Write the two digit number leaving a space between the digits.

Example $63 \times 11 = 6_3$

step 2 Add the digits of the two-digit number together.

Example $6 + 3 = 9$

step 3 Put the answer to **step 2** in the space you left in **step 1**. Your three-digit number is the answer.

Example $63 \times 11 = 693$

d

Division is never associative.

Example

$(24 \div 4) \div 2$ does not give the same answer as $24 \div (4 \div 2)$.

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