

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



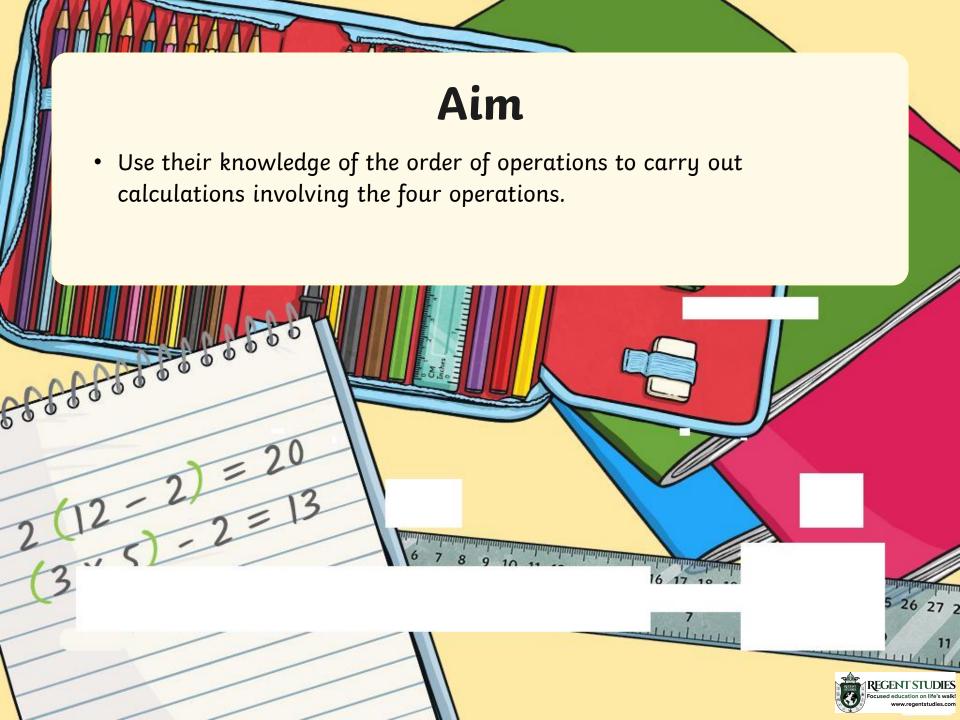


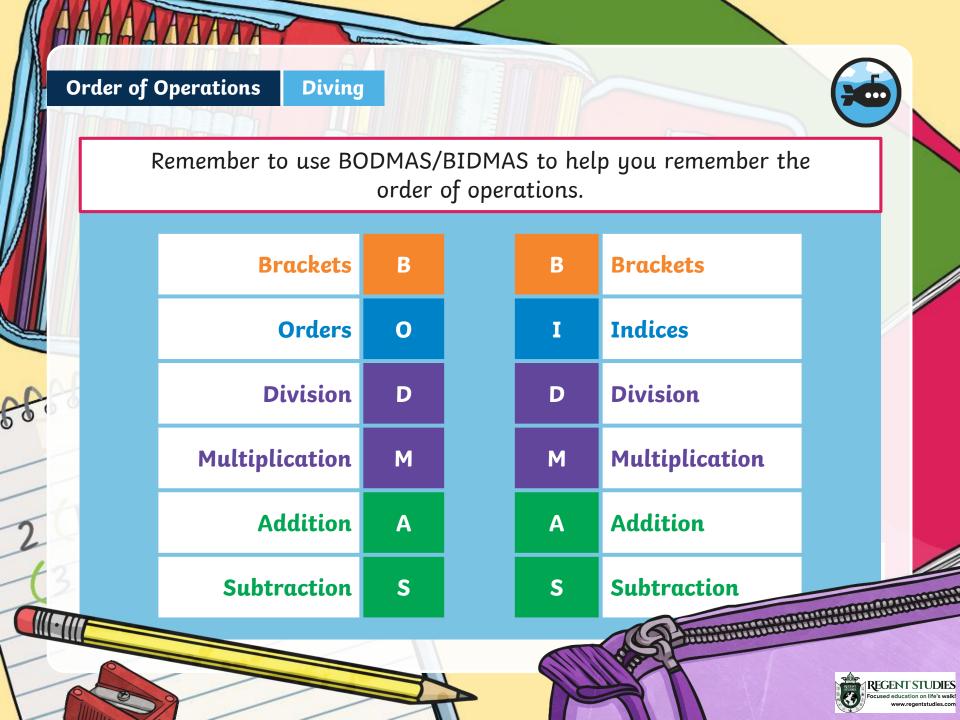


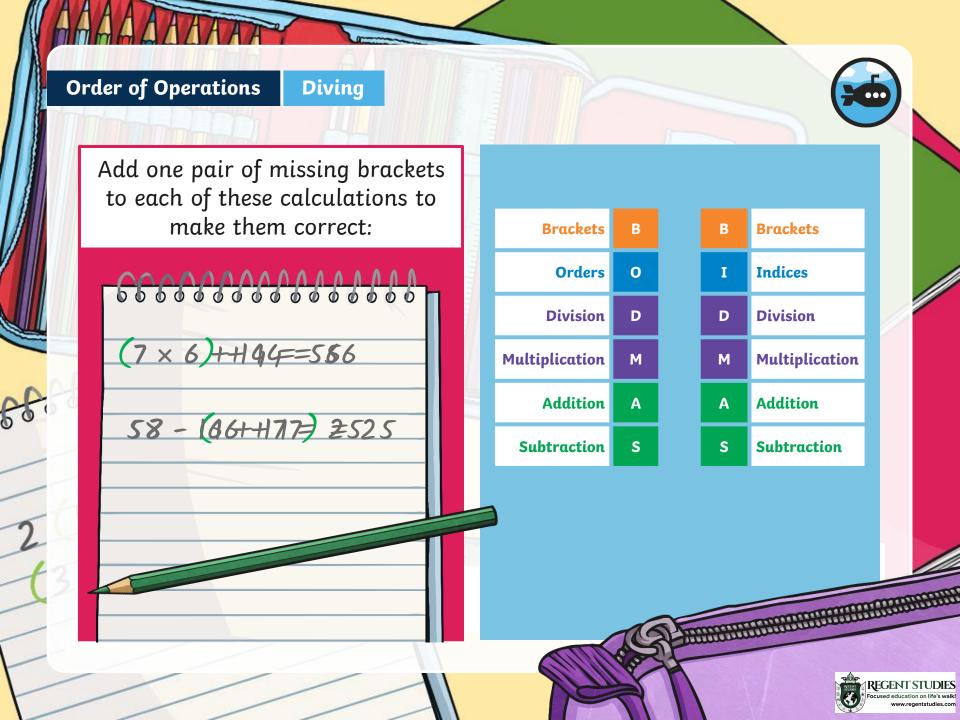
These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.









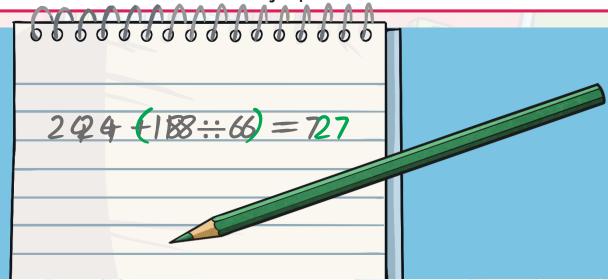


Order of Operations

Deeper



Look carefully at his calculation and describe the error that has been made with the order of operations.



Answer

The answer has been worked out by moving from left to right, ignoring BODMAS/BIDMAS. The correct answer is 27 as we would need to carry out the division first, followed by the addition.



Order of Operations

Deeper



There is a special offer at a local stationery shop. A notebook is normally £8 but if you buy more than 8 notebooks, you will get £3 off the price of each one. Harry decides to buy 9 notebooks. How much will the notebooks cost Harry at the special offer price?

Which calculation will allow Harry to work out how much his notebooks will cost?

$$(9 \times 8) - 3 = £69$$

$$9 \times (8 - 3) = £45$$

For every notebook that Harry buys priced at £8, a £3 discount is applied. He buys 9 notebooks, so there needs to be 9 lots of £8 - £3.

If the first calculation were used, he would find 9 lots of £8, which is the full price of the notebook, followed by taking away just one lot of £3. This would mean that Harry only has his £3 discount on one notebook rather than all 9 notebooks.



Order of Operations

Number

Deepest



Set 1	Set 2	Set 3
2, 3, 4	5, 6, 7	8, 9, 10

Use a number from each of the sets above to complete the number calculations below:

Number

Number

Can you make an even number greater than 30?

Possible answers might include:

$$(4 \times 6) + 8 = 32$$

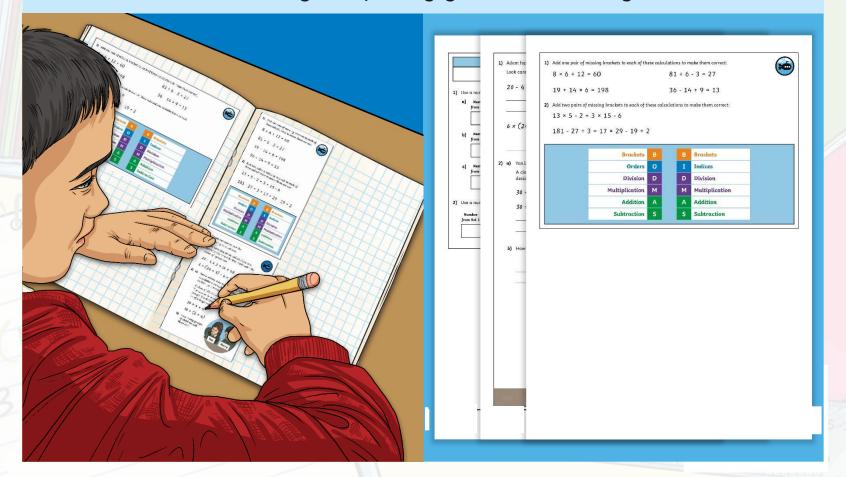
$$(4 \times 7) + 10 = 38$$

$$(4 \times 7) + 8 = 36$$





Dive in by completing your own activity!





Need Planning to Complement this Resource?

National Curriculum Aim

Use their knowledge of the order of operations to carry out calculations involving the four operations.

For more planning resources to support this aim

