

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 Diving



Remember to use BODMAS/BIDMAS to help you remember the order of operations.

	Brackets	В		В	Brackets		
	Orders	0		I	Indices		
	Division	D		D	Division		
	Multiplication	М		М	Multiplication		
	Addition	Α		Α	Addition		
	Subtraction	S		S	Subtraction		
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3			A	Ne		Focused ed	VT STUDIES ucation on life's walk! w.regentstudies.com

Order of Operations **Diving**

Add one pair of missing brackets to each of these calculations to make them correct:

(7 × 6)++194==566

58 - (86++177=) 2525







Order of Operations **Diving**

Add two pairs of missing brackets to each of these calculations to make them correct:

6 × (9-33) 6=+6 S+ × (6 × 6) (8 × 8)--22==66++7(7 & 8)









Deeper



27 2

Answer

Order of Operations

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?

$$(9 \times 8) - 3 = \pounds 69$$

 $9 \times (8 - 3) = £45$

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.

er of Operations	Deepest			(
Set 1	Se	2t 2	Set 3	
2, 3, 4	5,	6, 7	8, 9, 10	
from Set 1from Set 22×53×6	from Set 3 + 18 = 20 Number from Set 3 + 9 = 27	Can you may greater than Possible answ $(4 \times 6) + 8 =$ $(4 \times 7) + 10 =$ $(4 \times 7) + 8 =$	ke an even number 1 30? vers might include: 32 5 38 36	

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Order of Operations

Dive in by completing your own activity!



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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.

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