

BODMAS

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



Rule

The order for operations is:

- B** Brackets
- O** Orders (e.g. 4^2)
- DM** Division and Multiplication
- AS** Addition and Subtraction

The way to remember this is: **BODMAS**



1 Work out these calculations using the BODMAS rule.

- | | |
|---------------------------------|--|
| a $24 + 67 \times 2$ | b $(125 - 50) \times 3 \div 5$ |
| c $5 \times 8 + 61$ | d $(180 \div 10) \times 4 + 99$ |
| e $3 \times 5 + 56 \div 8$ | f $72 - 9 \div 9$ |
| g $72 \div 8 + (24 \times 5)$ | h $(43 \times 3) + (121 \div 11)$ |
| i $153 - (67 + 23)$ | j $(7 \times 12) + (5 \times 13)$ |
| k $49 \div 7 + 36$ | l $(23 + 24) \times 6 - 135$ |
| m $(72 \times 2) - (72 \div 4)$ | n $165 + (15 \times 6) - (128 \div 8)$ |

2 Choose five of the calculations from Question 1 and put the brackets in a different place to get a different answer.

1 Work out these calculations using the BODMAS rule.

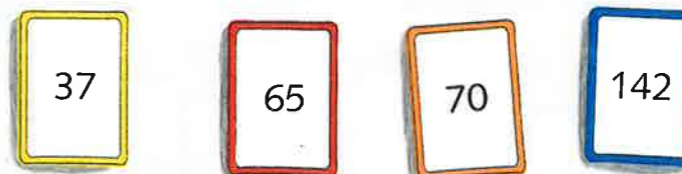
- | | | |
|-----------------------------------|---------------------------------------|---------------------------------|
| a $10^2 - (20 \times 3)$ | b $(350 - 15) + (20 \times 7)$ | c $150 + (60 \times 6)$ |
| d $(420 + 50) \times (25 - 16)^2$ | e $(52 + 52) \times (5 - 2)$ | f $(43 + 7) \times (137 - 132)$ |
| g $(499 - 3) + (46 \times 6)$ | h $(33 \times 7) - (2 \times 5)^2$ | i $560 - (40 \times 7)$ |
| j $783 - (10 \times 9)$ | k $(26 \times 7) + (41 \times 8)$ | l $(425 - 213) + (47 \times 3)$ |
| m $368 - (11 \times 14)$ | n $(287 - 187)^2 - 453 + (2000 - 75)$ | o $4500 - (3 \times 4)^2$ |

2 Choose five of the calculations from Question 1 and put the brackets in a different place to get a different answer.

3 Using only the digits 1, 3, 5, 6 and 8, along with any of the four operations and brackets, can you find three different ways to make these numbers?

Example

$$(3 \times 5) + (11 \times 3) - 11 = 37$$

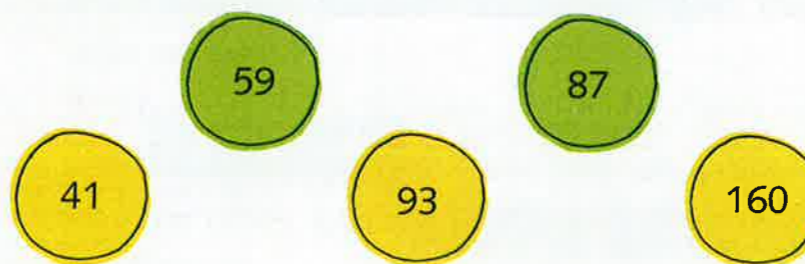


Challenge 3

1 Work out these calculations using the BODMAS rule.

- | | | |
|---------------------------------|-----------------------------------|---------------------------------------|
| a $547 + 262 - 520 \div 10$ | b $5 \times 13 + 99 - 7^2$ | c $(85 \div 5) \times 12 + 62$ |
| d $42 \times (12 + 6 - 5)$ | e $62 \times (15^2 - 2)$ | f $3920 + (23 \times 4) \div 2$ |
| g $7 \times 13^2 + (957 - 279)$ | h $6 \times 8^2 + 4258$ | i $583 - 17^2 + (348 \div 6)$ |
| j $288 \div (4 \times 6 + 8)$ | k $19^2 - (4 \times 7) \times 3$ | l $6054 + (76 \times 4) \div 4 - 869$ |
| m $(482 - 108) \div (16 + 6)$ | n $6238 - 70^2 + (4628 \times 2)$ | o $6316 - 16^2 - (847 \div 11)$ |

2 Using only the digits 2, 4, 5, 7 and 9, make each of the numbers below. Can you find different ways to make these numbers?



Hint

You can use brackets.

