BODMAS — 2

After you've dealt with the brackets in a calculation, there's still an order in which you tackle the operations. Look back at BODMAS and follow that order. There are loads of calculations to have a go at on this page.

Examples   BODMAS — **B**rackets, **D**ivision, **M**ultiplication, **A**ddition and **S**ubtraction

Work out $9 + 4 \times 6 - (24 + 3)$.

$9 + 4 \times 6 - (24 + 3) = 9 + 4 \times 6 - 27$ ← $24 + 3 = 27$
$= 9 + 24 - 27$
$= 6$ ← $4 \times 6 = 24$

Work out $10 - 7 + 3$.

$10 - 7 + 3$
$= 3 + 3$
$= 6$

When you have *only* addition and subtraction, you work from left to right — BODMAS says to do addition *and* subtraction together.

Set A

Answer the following:

1. $5 + 7 - 6$
2. $70 \div (16 - 6)$
3. $3 \times 20 - 17$
4. $10 + 7 - 9$
5. $4 \times 8 - 3$
6. $(4 + 8) \times 5$

Fill in the missing numbers:

7. $5 \times (15 - 7) = \boxed{}$
8. $20 - 12 + 7 = \boxed{}$
9. $\boxed{} \div (53 - 43) = 6$
10. $\boxed{} - 6 \times 2 = 5$
11. $8 \times 77 \div 11 = \boxed{}$
12. $\boxed{} + 5 \times 4 = 39$

Charlie has £6. His mum gives him £12. Charlie then spends all of this money on 4 books, which all cost the same.

13. Write down the calculation you would do to find out how much each book was.
14. Work out the cost of each book.

Set B

Answer the following:

1. $33 \div (6 + 5)$
2. $7 + 54 \div 9$
3. $6 \times 35 \div 7$
4. $95 - 12 \times 7$
5. $8 + (12 - 5) \times 6$
6. $(23 + 9) \div 4 - 2$

Fill in the missing numbers:

7. $\boxed{} + 5 - 10 = 12$
8. $\boxed{} \div (2 \times 4) = 7$
9. $15 \div 3 + \boxed{} = 24$
10. $3 \times 3 \times 4 \div 2 = \boxed{}$
11. $29 + 14 - 7 \times 2 = \boxed{}$
12. $34 - (7 + 5) \times \boxed{} = 10$

Last month, Scott spent £39 on 13 bus tickets to work. This month, he has travelled to work by bus 7 times.

13. Write down the calculation you would do to find out how much Scott spent this month.
14. Work out how much Scott spent this month on buses.

Set C

Fill in the missing numbers:

1. $\boxed{} + 9 \times 3 = 141$
2. $\boxed{} \times 24 \div 12 = 16$
3. $100 \div (25 - 20) = \boxed{}$
4. $\boxed{} + 63 \div 7 = 83$
5. $94 - 45 + 18 = \boxed{}$
6. $(69 - 5) \div \boxed{} + 3 = 11$
7. $27 + (\boxed{} + 8) \times 10 = 137$

Nina buys 6 packs of 15 balloons. Three balloons in each pack are damaged, so Nina can't use them. She decorates 9 rooms, each with the same number of balloons.

8. Write down the calculation you would do to find out how many balloons are in each room.

Then work out the answer.

Are the following true or false?

9. $77 + 132 \div 11 =$
   $173 - 12 \times 7$
10. $8 - 3 + 5 \times 6 =$
    $8 - 1 \times 3 + 2$
11. $144 \div 12 \div 3 =$
    $(4 + 8) \times 4 \div 2 \div 2$
12. $61 - (4 + 9) \times 4 =$
    $(48 + 12) \div 15 + 5$

I know what order to do operations.