

Order of Operations (BIDMAS)

Practice worksheet · KS3 · Years 7 to 9

Name: _____

Date: _____

Brackets, indices, then divide and multiply (equal priority, left to right), then add and subtract (also left to right). Write one step per line. No calculator needed.

1. $10 - 4 + 2$

2. $12 \div 2 \times 3$

3. $5 + 3 \times 4$

4. $20 - 12 \div 4$

5. $(5 + 3) \times 4$

6. $18 \div (2 + 4)$

7. $6 \times (10 - 7) + 2$

8. $2 + 3^2$

9. $(2 + 3)^2$

10. $100 - 4^3$

11. $8 \div 2(2 + 2)$

stretch

12. $6 \div 2(1 + 2)$

stretch

13. $12 \div 3(2)$

stretch

14. $230 - 220 \div 2$

stretch

15. Tickets cost £8 for adults and £5 for children. Write and work out the total for 2 adults and 3 children: $2 \times 8 + 3 \times 5$

stretch

16. A café bill is £30 shared by 2 people, plus a £4 tip each. Work out $30 \div 2 + 4$

stretch

Answers

Order of operations · mark it together

1. left to right: $6 + 2 = 8$
2. left to right: $6 \times 3 = 18$
3. multiply first: $5 + 12 = 17$
4. divide first: $20 - 3 = 17$
5. brackets first: $8 \times 4 = 32$
6. brackets first: $18 \div 6 = 3$
7. $6 \times 3 + 2 = 18 + 2 = 20$
8. indices first: $2 + 9 = 11$
9. brackets first: $5^2 = 25$
10. indices first: $100 - 64 = 36$
11. brackets, then left to right: $8 \div 2 \times 4 = 16$
12. brackets, then left to right: $6 \div 2 \times 3 = 9$
13. left to right: $4 \times 2 = 8$
14. divide first: $230 - 110 = 120$
15. $16 + 15 = 31$
16. $15 + 4 = 19$