# Order of Operations (BIDMAS)

Practice worksheet · KS3

Name: _____ Date: _____

**1.** 10 - 4 + 2

**2.** 12 ÷ 2 × 3

**3.** 5 + 3 × 4

**4.** 20 - 12 ÷ 4

**5.** (5 + 3) × 4

**6.** 18 ÷ (2 + 4)

**7.** 6 × (10 - 7) + 2

**8.** 2 + $3^2$

**9.** $(2 + 3)^2$

**10.** 100 - $4^3$

**11.** 8 ÷ 2(2 + 2)

★ stretch

**12.** 6 ÷ 2(1 + 2)

★ stretch

**13.** 12 ÷ 3(2)

★ stretch

**14.** 230 - 220 ÷ 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 × 8 + 3 × 5

★ stretch

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

★ stretch

# Answers

Order of operations

1. left to right: 6 + 2 = 8
2. left to right: 6 × 3 = 18
3. multiply first: 5 + 12 = 17
4. divide first: 20 - 3 = 17
5. brackets first: 8 × 4 = 32
6. brackets first: 18 ÷ 6 = 3
7. 6 × 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 ÷ 2 × 4 = 16
12. brackets, then left to right: 6 ÷ 2 × 3 = 9
13. left to right: 4 × 2 = 8
14. divide first: 230 - 110 = 120
15. 16 + 15 = 31
16. 15 + 4 = 19