

# BIDMAS – Level One

## How to Guide - ANSWERS

### Question 1

a)  $2 \times (6 + 4) = 2 \times 10 = \mathbf{20}$       Do the part in brackets first

b)  $2 \times 6 + 4 = 12 + 4 = \mathbf{16}$       Do the multiplication first

c)  $7 \div 2 + 3 = 3.5 + 3 = \mathbf{6.5}$       Do the division first

d)  $7 \div 2 + (9 - 2) = 7 \div 2 + 7 = 3.5 + 7 = \mathbf{10.5}$

Do the brackets first, then the division and finally the addition.

### Question 2

a)  $100 - \frac{5}{2} = 100 - 2.5 = \mathbf{97.5}$

Divide 5 by 2 first then subtract from the 100.

b)  $\frac{90 - 5 \times (6 + 2)}{2} + 7 = \frac{90 - 5 \times 8}{2} + 7 = \frac{90 - 40}{2} + 7 = \frac{50}{2} + 7 = 25 + 7 = \mathbf{32}$

First, work out the bracket at the top of the fraction. Then continue with the top of the fraction by doing the multiply first and then the subtract. Next, divide by 2 and finally add the 7.

c)  $600 + \frac{100}{5} = 600 + 20 = \mathbf{620}$

Divide the 100 into 5 first then add the answer to 600.

d)  $\frac{8}{4} + 3 = 2 + 3 = \mathbf{5}$

Divide the 8 by 4 first then add the 3.

## Mixed Questions

$$\text{a)} \quad \frac{25+5}{6-8} + 4 = \frac{30}{6-8} + 4 = \frac{30}{6-8} + 4 = \frac{30}{-2} + 4 = -15 + 4 = \mathbf{-11}$$

First, look at the top of the fraction. Complete the addition. Next, look at the bottom of the fraction and complete the subtraction. Note the answer is negative. Next, complete the whole fraction by dividing (again, noting the answer is negative). Finally complete the addition.

$$\text{b)} \quad 6 + (10 - 2) \div 2 + 5 = 6 + 8 \div 2 + 5 = 6 + 4 + 5 = \mathbf{15}$$

First, complete the bracket. Next do the division in the middle: 8 divided by 2. Finally, complete all the additions.

$$\text{c)} \quad (6 + 4) \times 12 = 10 \times 12 = 120$$

You must do the bracket first, then multiply the answer by 12.

$$\text{d)} \quad \frac{50 - 10}{2} = \frac{40}{2} = \frac{40}{2} = \mathbf{20}$$

First, complete the top of the fraction by subtracting. Next, complete the division of the fraction.

$$\text{e)} \quad \frac{10+3-4}{24-14} = \frac{9}{24-14} = \frac{9}{10} = \mathbf{0.9}$$

First, look at the top of the fraction and do the addition and subtraction from left to right. Next, look at the bottom and complete the subtraction. Finally, complete the division of the fraction.

$$\text{f)} \quad 4 \times (5 + 3) - 7 = 4 \times (8) - 7 = 32 - 7 = \mathbf{25}$$

First, look inside the bracket and complete the addition. Next, do the multiplication and finally the subtraction.