#### MA4113: Applied Business Mathematics

#### Week 1 Answers

1. Multiplication is done first giving 3 + 9 - 3 = 9.

Use the fact that 3-3=0. Then  $(3+3)\times(3-3)=6\times0=0$ .

2. Do multiplications first:  $3 \times 2 - 1 \times 4 = 6 - 4 = 2$ .

Inserting brackets:  $3 \times (2 - 1) \times 4 = 3 \times 1 \times 4 = 12$ ;

$$3 \times (2 - 1 \times 4) = 3 \times (-2) = -6;$$
  $(3 \times 2 - 1) \times 4 = (6 - 1) \times 4 = 5 \times 4 = 20.$ 

3(a). 4+2\*3-16/2/2+4+2\*2^2-1

-17.

=23.

4. Expression in brackets is 
$$x - \frac{4}{x} = \frac{x^2}{x} - \frac{4}{x} = \frac{x^2 - 4}{x} = \frac{(x-2)(x+2)}{x}$$
.

So overall expression is 
$$\frac{1}{(x+2)} \frac{(x-2)(x+2)}{x} = \frac{(x-2)(x+2)}{(x+2)x} = \frac{(x-2)}{x}$$
.

This is the simplest form but we could also write this as  $1 - \frac{2}{x}$ .

5. First combine the fractions within each set of brackets by taking common denominators:

$$\left(\frac{1}{x} + \frac{2}{x+1}\right) \times \left(\frac{1}{x} - \frac{2}{3x+1}\right)$$

$$= \left(\frac{x+1}{x(x+1)} + \frac{2x}{x(x+1)}\right) \times \left(\frac{3x+1}{x(3x+1)} - \frac{2x}{x(3x+1)}\right)$$

$$= \left(\frac{x+1+2x}{x(x+1)}\right) \times \left(\frac{3x+1-2x}{x(3x+1)}\right)$$

$$=\left(\frac{3x+1}{x(x+1)}\right)\times\left(\frac{x+1}{x(3x+1)}\right)$$

$$= \frac{(3x+1)(x+1)}{x^2(x+1)(3x+1)} = \frac{1}{x^2}.$$

6. The populations are  $p_M = 379499$  and  $p_S = 278343$ , so the combined population is

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**Arshad Iqbal** 

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