# Mathematics Essential

# Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Task 1.6 – Unit 1

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 15 minutes

In class, calculator permitted

**Marks:** 16 marks \_\_\_\_\_\_/16

**Task weighting:**

2% of the school mark for this unit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Give the answer to   
a) 29 – (11 + 4) - 6 b) 10 x (5 + 2 x 4)

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Put brackets into these statements to make them true:

(a) 4 + 5 × 3 – 1 = 26

(b) 10 – 8 ÷ 2 + 2 = 8

3. Which is the best (Cheapest) price  
  
 a) $3.20 for 30m of wrap **or** $7.90 for 90m of the same wrap?

b) Potatoes for $3.33 per kg **or** a 3kg bag for $10.00?

4. Use the tax table to find the tax payable on taxable incomes given below.

|  |  |
| --- | --- |
| Taxable Income | Tax on this Income |
| 0 - $18 200 | Nil |
| $18 201 - $37 000 | 19c for each $1 over $18 200 |
| $37 001 - $80 000 | $3 572 plus 32.5c for each $1 over $37 000 |

1. Taxable income of $16 300
2. Taxable income of $26 800
3. Taxable income of $52 000

5. A taxi charges $5.50 plus $3.00 for each km travelled, how much would it cost if you travelled:

a) to Perth which is 15km?

b) To Fremantle which is 9km?

# Mathematics Essential **Solutions**

## Task 1.6 – Unit 1

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 15 minutes

In class, calculator permitted

**Marks:** 16 marks \_\_\_\_\_\_\_\_\_\_\_\_\_\_/16

**Task weighting:**

2% of the school mark for this unit

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Give the answer to   
a) 29 – (11 + 4) - 6 b) 10 x (5 + 2 x 4)

= 8 ✓ = 130 ✓

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Put brackets into these statements to make them true:

(a) (4 + 5) × 3 – 1 = 26 ✓

(b) 10 – (8 ÷ 2) + 2 = 8 ✓

3. Which is the best (Cheapest) price  
  
 a) $3.20 for 30m of wrap **or** $7.90 for 90m of the same wrap? ✓

b) Potatoes for $3.33 per kg **or** a 3kg bag for $10.00? ✓

4. Use the tax table to find the tax payable on taxable incomes given below.

|  |  |
| --- | --- |
| Taxable Income | Tax on this Income |
| 0 - $18 200 | Nil |
| $18 201 - $37 000 | 19c for each $1 over $18 200 |
| $37 001 - $80 000 | $3 572 plus 32.5c for each $1 over $37 000 |

1. Taxable income of $16 300  
   Nil ✓
2. Taxable income of $26 800  
   8 600 x 0.19c = $1 634 ✓✓
3. Taxable income of $52 000  
   $3 572 + 32.5c x 15 000  
    = $8447 ✓✓✓

5. A taxi charges $5.50 plus $3.00 for each km travelled, how much would it cost if you travelled:

1. to Perth which is 15km?  
   $5.50 + 3 x $15

= $50.50 ✓✓

b) To Fremantle which is 9km?

$5.50 + $3 x 9  
 = $32.50 ✓✓