# Mathematics Essential

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

## Task 2.3 – Unit 2

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 25 minutes

In class, calculator permitted

**Marks:** 18 marks \_\_\_\_\_\_/25

**Task weighting:**

2% of the school mark for this unit

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1. What would 5kg of apricots weigh once dried if apricots lose 70% of their mass during the drying process? [2 marks]

1500g or 1.5 kg

1. There are 5 packets of paper in a box of paper. Today, paper is on special. You can buy a single packet for $3.79 of a box for $19.95. What is the cheaper way to buy paper today? [2 marks]

a single packet for $3.79

1. There are 840 students at Peel Senior High School. 55% of these students are  girls. How many boys attend Peel Senior High School? [2 marks]

378

1. The local clothing shop offers 15% off all shirts. What would you pay for a shirt that normally costs $31?   [2 marks]

$26.35

1. Sue pays $440 a week in rent. The landlord decides to increase the rent by 4%. How much does Sue now pay each week?   [2 marks]

$457.60

1. 92% of the 1200 students at Peel Senior High School have mobile phones. How many students have mobile phones?   [2 marks]

1104

1. Complete the following; [6 marks]
   * 1. Write 0.7 as a percentage 70%
     2. Write 2.07 as a percentage. 207%
     3. Estimate to 1 d.p. ~ 5.1
     4. A square has an area of 4m2. What would its perimeter be? 8m
     5. 375 mL = 0.375 L
     6. 3 Hours = \_\_108­00\_\_\_\_Seconds
2. Find the area of the triangle below. [2 marks]

2.5m

50cm

A = ½ b x h

= ½ 250 x 50

= 6250cm2 or 0.625m2

1. Place the decimals in order form lowest to highest: [2 marks]

0.09, 0.7, 1.20, 0.302, 0.032, 0.21, 0.201

0.032, 0.09, 0.201, 0.21, 0.302, 0.70, 1.20

1. Express the following as a percentage: [2 marks]
   * 1. 20 out of 30 66.66%
     2. 16 metres out of 300 metres 5.33%
2. Find the median of 15, 13, 14, 15, 16. 14 [1 marks]