# Mathematics Essential

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

## Task 1.3 – Unit 1

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 15 minutes

In class, calculator permitted

**Marks:** 22 marks \_\_\_\_\_\_\_\_\_\_\_\_\_\_/22

**Task weighting:**

2% of the school mark for this unit

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

1. Complete the following table.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percentage % |
| ¼ |  |  |
|  | 0.65 |  |
| ⅝ |  |  |
|  |  | 12% |
|  |  | 5% |
|  | 1.3 |  |

2. a) What is the area of a rectangle 15m by 8m? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) What is the area of a rectangle 35cm by 2.4m? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. a) 2.5km = \_\_\_\_\_\_\_\_\_\_\_\_\_m?

b)1500cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m

4. a) 5cm2 = \_\_\_\_\_\_\_\_\_\_\_\_\_mm2?

b)15000m2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ha

c) 876cm2 = \_\_\_\_\_\_\_\_\_\_\_\_\_m2?

d) 1.23m2 = \_\_\_\_\_\_\_\_\_\_\_\_\_cm2?

5. If potatoes cost $2.75/kilo, how many can I buy for $22?

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

1.3

# Mathematics Essential **Solutions**

## Task 1.3 – Unit 1

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 15 minutes

In class, calculator permitted

**Marks:** 22 marks \_\_\_\_\_\_\_\_\_\_\_\_\_\_/22

**Task weighting:**

2% of the school mark for this unit

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

1. Complete the following table.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percentage % |
| ¼ | **0.25✓** | **25%✓** |
| **65/100 or 13/20✓** | 0.65 | **65%✓** |
| ⅝ | **0.625✓** | **62.5%✓** |
| **12/100 or 3/25✓** | **0.12✓** | 12% |
| **5/100 or 1/20✓** | **0.05✓** | 5% |
| **1 30/100or1 3/10✓** | 1.3 | **130%✓** |

2. a) What is the area of a rectangle 15m by 8m? **120m2 - ✓for number & ✓ for units**\_\_

b) What is the area of a rectangle 35cm by 2.4m? \_\_**0.84m2 or 8400cm2**.**✓**\_\_

3. a) 2.5km = \_\_**2500m✓**\_\_\_m?

b)1500cm = \_\_\_**15m✓**\_\_\_\_\_\_m

4. a) 5cm2 = \_\_\_**500mm2✓**\_\_\_mm2?

b)15000m2 = \_\_\_**1.5 ha✓**\_\_\_\_\_\_ha

c) 876cm2 = \_\_**0.0876m2✓**\_\_m2?

d) 1.23m2 = \_**12300cm2✓**\_\_cm2?

5. If potatoes cost $2.75/kilo, how many can I buy for $22?

\_\_\_\_\_**8 kg✓**\_\_\_\_\_\_\_\_\_\_\_\_