# Mathematics Essential

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

## Task 1.7 – 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

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1. Using the formula **I = P x R x T** find the interest for the following:   
a) P = $3200, R = 3.5%, T = 3 years b) P = $7800, R = 0.0275, T = 2 years

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

2. You are travelling in a car at 75km/hr

a) how far would you travel in 4 hours?

b) How long would it take for you to travel, in hours and minutes, 250km?

3. Which is the best buy  
 a) A carton of 12 tins of peaches for $15.50 or 12 tins of peaches at $1.28 each?

b) A 5kg bag of onions for $11.00 **or** 5 kg of onions at $2.25 per kg?

4. What is the percentage % discount for each of the following.

1. Original price $400 - $60.00 off
2. Original price $760 - $91.20 off

5. Round the following to the second decimal place:

a) 45.3875

b) 87.0956

6. Round the following to the nearest 5 cents:

a) $45.3875

b) $87.0956

7. Give the answer to

a) 4.8 ÷ 1000

b) (4 + 7 x 2 – 3 x 4)2

c) (8 x 3 ÷ 6 + 7) - 5

# Mathematics Essential **Solutions**

## Task 1.7 – 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

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1. Using the formula **I = P x R x T** find the interest for the following:   
a) P = $3200, R = 3.5%, T = 3 years b) P = $7800, R = 0.0275, T = 2 years

\_$336 ✓\_\_ \_$429 ✓\_\_

2. You are travelling in a car at 75km/hr

a) how far would you travel in 4 hours?  
  
 300 ✓

b) How long would it take for you to travel, in hours and minutes, 250km?

3hrs 20 min ✓✓ 3.3333hrs 1 mk

3. Which is the best buy  
 a) A carton of 12 tins of peaches for $15.50 or 12 tins of peaches at $1.28 each?

12 tins 15.36 ✓

b) A 5kg bag of onions for $11.00 **or** 5 kg of onions at $2.25 per kg?

5kg bag ✓ $11.25

4. What is the percentage % discount for each of the following.

1. Original price $400 - $60.00 off  
    15% ✓
2. Original price $760 - $91.20 off  
    12% ✓

5. Round the following to the second decimal place:

a) 45.3875  
 45.39 ✓

b) 87.0956

87.10 ✓

6. Round the following to the nearest 5 cents:

a) $45.3875  
 $45.40 ✓

b) $87.0956

$87.10 ✓

7. Give the answer to

a) 4.8 ÷ 1000

0.0048 ✓

b) (4 + 7 x 2 – 3 x 4)2

36 ✓

c) (8 x 3 ÷ 6 + 7) - 5

6 ✓