Mathematics Essential Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Task 2.1 – Unit 2

**Assessment type:** Response - Skills

**Conditions:**

Time for the task: 15 minutes

In class, calculator permitted

**Marks:** 14 marks \_\_\_\_\_\_/14

**Task weighting:**

2% of the school mark for this unit

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

1. What is the area of a 6m by 9.5 m rectangle?

A = LxW

= 6 x 9.5

=57m2

2. What is the perimeter of the same rectangle?

P= 6+6+9.5+9.5

= 31m

1. What is the area of triangle below with sides of 10m, 24m and 26m?

A = ½ b x h

= ½ 10 x 24

26m

24m

= 120m2

10m

4. If you walk at 4.5 km per hour, how far would you travel in 80 minutes?

4.5 km : 60 min

6 km : 80 mins

5. Increase $1250 by 11%

11/100 x $1250 = $137.50

$137.50 + $1250 = $1387.50

6. Write 1/3 as a percentage

1/3 x 100 = 33.33%

7. Write 222 % as a decimal

2.22

8. Find the **median** for the following set of data.

**4, 5, 6, 8, 8, 12**

median = 7

9. Find the **Mean** for the following set of data.

**4, 5, 6, 8, 8, 12**

mean= 7.17

10. Find the mode from the stem and leaf plot below.

Mode = 17

|  |  |
| --- | --- |
| Stem | Leaf |
| 1 | 1 2 5 7 7 |
| 2 | 0 1 3 4 8 |
| 3 | 2 9 |

11. A 10cm x 10 cm x 20 cm container has the capacity of \_\_\_\_\_\_\_\_\_\_\_ Litres?

2000cm3 /1000 = 2L

12. If someone ran 2000m in 5 minutes what was their average speed?

2000: 5

? : 1

400m/min

13. a) What is 1:12 pm in 24 hour time?

13: 12

b) What is the time difference between 9.40 pm and 2.00 am?

4 hrs 20 mins