HOMEWORK 9 Term 2 Sheet 3

If a question has more than 1 mark, show some working out for full marks

Name:_____ /17

Due:_____

1. Large Numbers (1)

Internet use in Australia				
Year	2003	2004	2005	2006
Number of people (millions)	12.21	13.27	13.60	14.28

Between 2003 and 2006, internet usage is Australia increased by about

- 0.5 million people.
- 1 million people.
- 2 million people.
- 2.5 million people.

2. Integers (1)

As Mike skydives, the air temperature increases by the same amount every 100m. At a height of 5000 metres the air temperature is -18 ° C. At ground level the temperature is 22° C. What is the temperature at a height of 2000 metre?

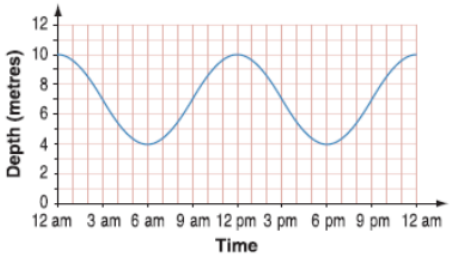
3. Probability (1)

A signal at a pedestrian crossing near Sam's house stays red for 30 seconds. It then changes to green for 20 seconds.

What is the probability it will be green the next time Sam wants to use the crossing?

4. Reading Graphs (2)

The graph shows the depth of sea water at different times of the day.



The depth at 10 pm is the same as the depth as which other times?

5. Logical Reasoning (1)

A number of students were asked this question"

"How many cousins do you have?"

The smallest answer was 6.
The highest answer was 20.
The total of all answers was 50.

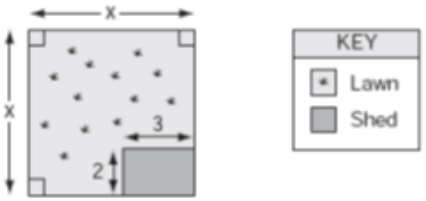
What is the smallest number of students who could have been asked this question?

6. Circumference (2)

The diameter of a circular table top is 2.6 metres. What is the circumference of the table top?

7. Algebraic expression (1)

Sue drew up a plan for her garden



The area of lawn in square meters is?

$x^2 - 6$ $x^2 + 6$ $2x^2 - 5$ $2x^2 - 6$

8. Time (1)

What is the difference in time from 3.18 pm to 12.03 am the next day?

9. Substitution (2)

If w = 3, then $\frac{4w}{2w-2}$ is equal to?

10. Expanding brackets (4)

a) $5\text{m}(2\text{m} + 1)$

b) $5x - 2(x - 3) =$

11. Angle Properties (1)

Two trapeziums fit together to form a regular hexagon. What is the value of **a**?