Literacy and Numeracy Planner - NAPLAN

Numeracy Year 9 - Week 6: Number

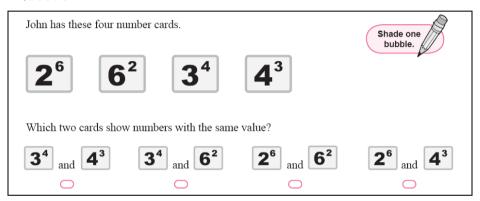
STUDENT WORKSHEET



Focus of the week

Indices and scientific notation

Question 1



Question 2

The amount of energy, E units, used by an air-conditioner for temperatures in the range 20° C to 30° C is given by the rule $E = 2T^{2}$ where T is the temperature in $^{\circ}$ C. How many units of energy are used when the temperature is 25° C?

Question 3

Let
$$d^3 = T^2$$
.

Find d when T = 8.

$$d = \underline{}$$

Challenge Question

$$8.345 \times 10^3 + 3.25 \times 10^{-1} - 6.58 \times 10^{-2}$$

- a) In the expression above, write each number as a common numeral and then evaluate the expression;
- b) Check your answer, with your calculator, by entering the numbers in a scientific form.