

Lesson Two Middle Classes

Solutions to exercise

28th April 2002

The census of population will be held on Sunday, 28th April 2002.

Let's investigate the Magic Number 28.

- * Is 28 an odd or an even number? **Even**
- * How many digits in the number 28? **2**
- * List the factors of 28: **2, 4, 7, 14, 28.**
- * How many addition facts can you list giving a total of 28?



1+27	2+26	3+25	4+24	5+23
6+22	7+21	8+20	9+19	10+18
11+17	12+16	13+15	14+14	

- * What month has only 28 days? **February**
- * Are there any other months with 28 days? **No**
- * What prime number comes before 28? **23**
- * What is half of 28? **14** Double 28? **56** Quarter of 28? **7**
- * How many people in the class have birthdays on the 28th? **(ask the class)**
- * Let's try a number trick. Write the number 28 on a piece of paper. This is number one.
- * Reverse the number 28. This is number two.
- * Now add number one and two together. What is your total? **110**
- * Take the number 28 again. Add the digits of 28. What did you get? **10**
- * Multiply this answer by 11. The answer was **110**
- * Compare the first and second answer. What do you notice?
- * Try this with some more two-digit numbers.

Solutions to exercise

Word Wizard

Word	Value of each letter	Total
CENSUS:	3+5+14+19+21+19	81
APRIL:	1+16+18+9+12	56
INFORMATION:	9+14+6+15+18+13+1+20+9+15+14	134
ENUMERATOR:	5+14+21+13+5+18+1+20+15+18	130
POPULATION:	16+15+16+21+12+1+20+9+15+14	139
KNOWLEDGE:	11+14+15+23+12+5+4+7+5	96
FUTURE:	6+21+20+21+18+5	91

Solutions to exercise

Enumerator

- What is an enumerator? **Answer: Enumerators deliver and collect the Census Forms. They will help you with any difficulties you may have, and they all carry official ID Cards.**
- What tasks will the census enumerator have to do before / after Census day?

Answer: They will deliver the Census Forms a month prior to Census Day, and collect them in the month following Census Day.

	Vowel	Consonant
Odd Number	a, e, o, u,	n, m, r, t,
Even Number	1, 5, 15, 21, 13,	14, 18, 20,

Solutions to exercise

Lollipop Logic

This sounds impossible but it can be done!

Take the above 22 lollipop sticks. Without removing any, can you sort them out so they make the number 2002. **Answer 1:**



For your next challenge, take 10 lollipop sticks and turn them into 2002.

A clue lies in this anagram: **Answer 2: The Anagram is 'Roman Numerals'.**
MM11 is 2002 in Roman Numerals.

NROMA MELANUR

And there's more!

Set out 12 sticks and make the number 28 - the census date!

Try using 9 sticks to make 28 also.

See example answer 1 above.

Solutions to exercise

Brain Drain

Old Folk

Can you say how old Nellie is? **Answer: 54 years old.**

House Numbers

If there were one hundred houses in the estate, how many times did Enya have to type the number 9? **Answer: 20.**

Prove it!

Which numbers go in each box?

Answer: $3+30+22=$ *and* $5+24+1+5+9+3+16+7+8+2=$