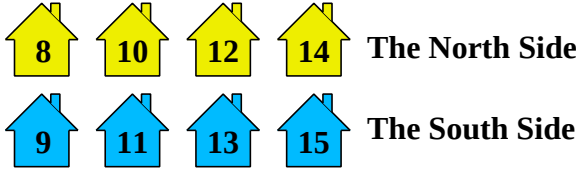


2.4 Homework

Question 1

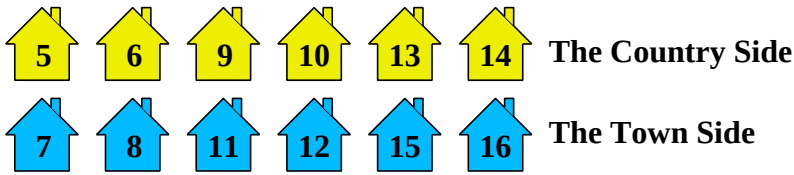
The diagram shows how the houses are numbered along a part of *Heartbreak Avenue*.



- (a) Will house 5 be on North or South Side ?
- (b) Will house 23 be on North or South Side ?

Question 2

The diagram shows how the houses are numbered along a part of *Privet Drive*.



- (a) Will house 20 be on Country or Town Side ?
- (b) Will house 33 be on Country or Town Side ?
- (c) If the house number divides by four exactly, which side ?
- (d) If the house number has a remainder of 1 when divided by 4, which side ?
- (e) A sequence is described by the following algebra;

$$A_n = 4n + 3$$

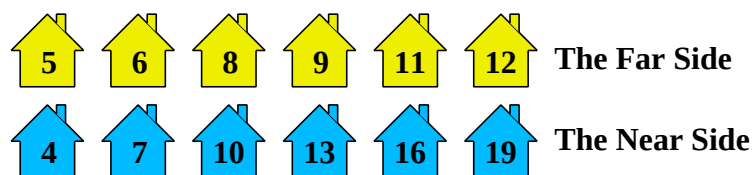
Write down the first six terms;

Position, n	1 st	2 nd	3 rd	4 th	5 th	6 th
Term, $A_n = 4n + 3$						

Are the houses that have numbers in sequence A on Country or Town side ?

Question 3

The diagram shows how the houses are numbered along a part of *Easy Street*.



- (a) Will house 2 be on Far or Near Side ?
- (b) Will house 29 be on Far or Near Side ?
- (c) If the house number divides by three exactly, which side ?
- (d) If the house number has a remainder of 1 when divided by 3, which side ?
- (e) A sequence is described by the following algebra;

$$B_n = 3n + 2$$

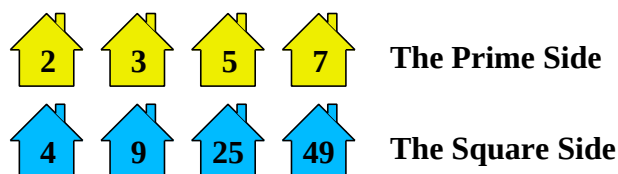
Write down the first six terms;

Position, n	1 st	2 nd	3 rd	4 th	5 th	6 th
Term, $B_n = 3n + 2$						

Are the houses that have numbers in sequence B on Far or Near side ?

Question 4

The diagram shows how the houses are numbered along a part of *Primera Drive*.



- (a) What can you say about house number 23 ?
- (b) What can you say about house number 121 ?
- (c) What can you say about house number 54 ?