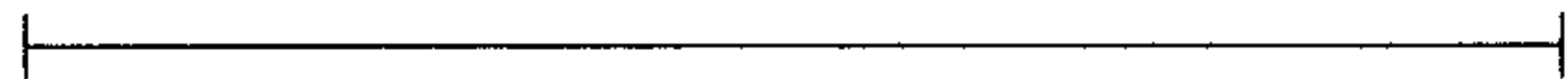


## Exercise 2

1. In a 'magic square' all rows ( $\longleftrightarrow$ ) columns ( $\updownarrow$ ) and main diagonals ( $\times$ ) add up to the same 'magic number'. Copy and complete this magic square.

6		12	7
	4		
	16	13	2
10			11

2. (a) What is the length of this line in millimetres?  
(b) What is this length in centimetres?



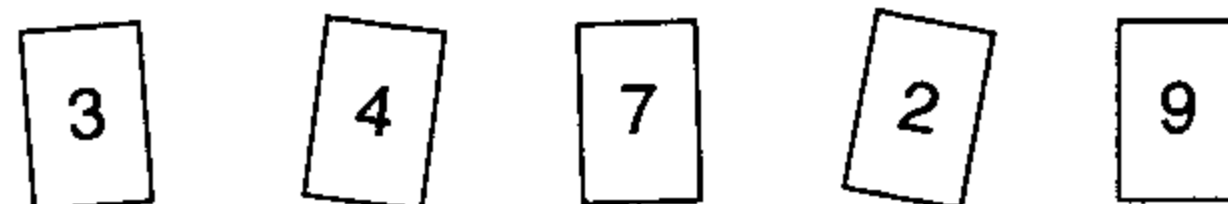
3. In a new airport terminal, 25 new doors are required.  
(a) If each door is fastened by 3 hinges, how many hinges are needed altogether?  
(b) If each hinge requires 6 screws, what is the total number of screws required to fit all the doors?



4. A multi-storey office block has 104 offices altogether. If there are 8 offices on each floor, how many storeys does the building have?
5. Numbers are missing on four of these calculator buttons. Copy the diagram and write in numbers to make the answer 25.

$$\boxed{2} \boxed{8} \boxed{+} \boxed{\phantom{0}} \boxed{\phantom{0}} \boxed{-} \boxed{\phantom{0}} \boxed{\phantom{0}} \boxed{=} \boxed{2} \boxed{5}$$

6. Here are some number cards.



- (a) Use two cards to make a fraction which is equal to  $\frac{1}{2}$ .  $\frac{\square}{\square}$
- (b) Use three of the cards to make the smallest possible fraction.  $\frac{\square}{\square \square}$
7. (a) How many 12 centimetre pieces of string can be cut from a piece of string which is 1 metre in length?  
(b) How much string is left over?
8. Look at this group of numbers ...

15, 9, 27, 24, 7

- (a) Which of the numbers is a multiple of both 3 and 4?  
(b) Which of the numbers is a prime number?  
(c) Which of the numbers is a square number?