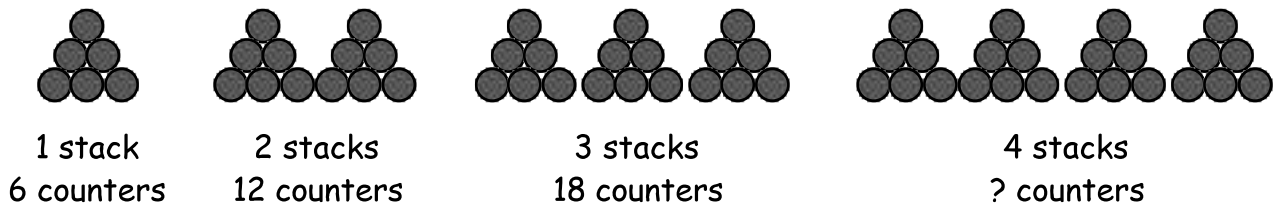


**Homework
Chapter 17**

Exercise 1

1. A pattern is made using counters :-



- (a) How many counters are needed for 4 stacks ?
- (b) Draw the next pattern of counters using 5 stacks.
- (c) Copy the following table and complete it :-

No. of stacks (S)	1	2	3	4	5	6
No. of counters (C)	6	12	?	?	?	?

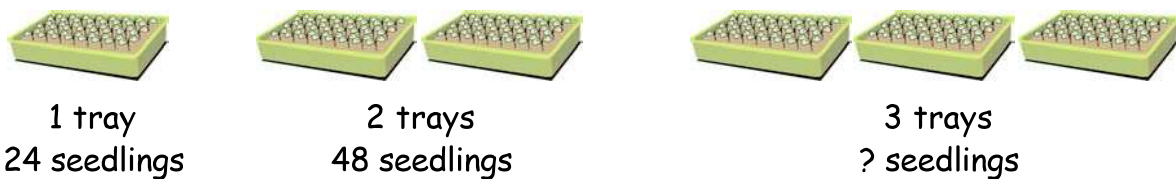
$\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$

- (d) For every extra stack, how many extra counters are needed ?
- (e) Write down the formula for calculating the number of counters needed assuming you know the number of stacks :-

copy this :- **number of counters = ? × number of stacks**

- (f) Now write down the formula in **symbols** $C = ? \times S$.
- (g) Use your formula to decide how many counters are needed to make 20 stacks.

2. Look at these trays of seedlings :-



- (a) How many seedlings will there be in (i) 3 trays ? (ii) 4 trays ?

cont'd

(b) Copy the following table and complete it :-

No. of trays (T)	1	2	3	4	5	6
No. of seedlings (S)	24	?	?	?	?	?

$\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$

- (c) For every extra tray, how many extra seedlings were planted ?
 (d) Write down the formula for calculating the number of seedlings planted assuming you know the number of trays :-

copy this :- number of seedlings = ? x number of trays

- (e) Now write down the formula in symbols $S = ? \times ?$.
 (f) Use your formula to decide how many seedlings are planted in 15 trays.

3. For each of these tables, find a formula or rule connecting the two letters :-

(a)	No. of trays (T)	1	2	3	4	5	6	$E = ? \times T$
	No. of eggs (E)	5	10	15	20	?	?	

$\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$

(b)	No. of packets (N)	1	2	3	4	5	6	$W = ? \times N$
	Weight in grams (W)	25	50	75	100	?	?	

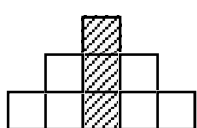
$\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$
 $\underbrace{\quad\quad\quad}_?$

(c)	No. of minutes (M)	1	2	3	4	5	6	$S = ? \times ?$
	Number of seconds (S)	60	120	180	?	?	?	

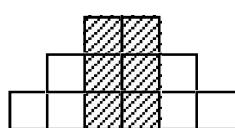
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Exercise 2

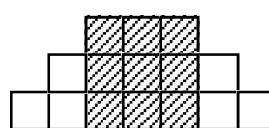
1. A pattern is made using squares as seen below :-



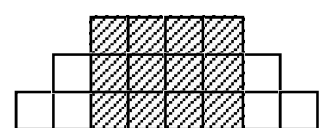
Pattern 1
9 squares



Pattern 2
12 squares



Pattern 3
15 squares



Pattern 4
? squares

cont'd