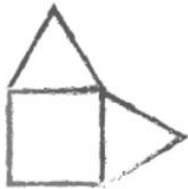# Worksheet 2

## Describing a Pattern

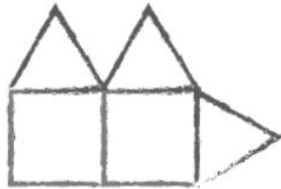**1** drew squares and triangles to make a pattern according to a rule.



Pattern 1     Pattern 2     Pattern 3

(a)   Complete the table.

| Pattern number | Number of squares | Number of triangles |
|---|---|---|
| 1 | 1 | 2 |
| 2 | 2 | 3 |
| 3 | 3 | 4 |
| 4 | 4 | 5 |
| 8 | 8 | 9 |
| 11 | 11 | 12 |

(b)   Describe Pattern $n$.

| Pattern number | Number of squares | Number of triangles |
|---|---|---|
| $n$ | $n$ | $n + 1$ |

**2** Write down the consecutive whole numbers starting with *a*.

*a*

| $a+1$ | $a+2$ | $a+3$ | $a+4$ | $a+5$ |

**3** Write down the consecutive even numbers starting with *b*.

*b*

| $b+2$ | $b+4$ | $b+6$ | $b+8$ | $b+10$ |
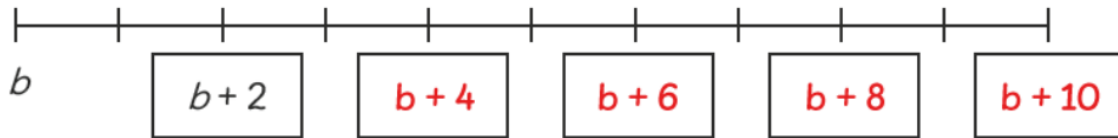
**4** Write down the consecutive odd numbers starting with *c*.

*c*

| $c+2$ | $c+4$ | $c+6$ | $c+8$ | $c+10$ |
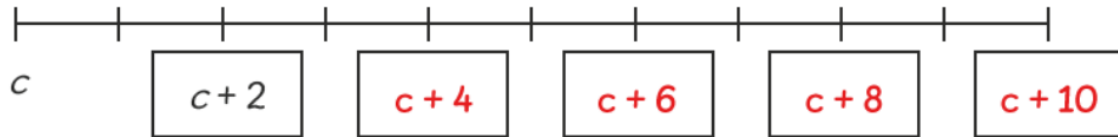
**5** What is the fifth consecutive whole number starting with *d*?

$d+4$

**6** What is the seventh consecutive even number starting with *e*?

$e+12$

**7** The fifth term in a sequence of consecutive whole numbers is n. What is the first term?

$n-4$