



Looking for a Pattern

1 Find the missing numbers in each number pattern.

(a) 5, 6, 10, 12, 15, 18, (), (), ...

(b) 6, 9, 13, 18, 24, (), (), ...

(c) 1, 3, 9, 27, (), (), ...

(d) 1, 3, 6, 8, 16, 18, (), (), ...

2 Find the missing numbers in the Pascal Triangle.

$$\begin{array}{ccccccc} & & & & 1 & & & & \\ & & & & & 1 & & 1 & \\ & & & & & & 1 & & 2 & & 1 \\ & & & & & & & 1 & & 3 & & 3 & & 1 \\ & & & & & & & & 1 & & 4 & & 6 & & 4 & & 1 \\ & & & & & & & & & 1 & & () & & () & & () & & () & & 1 \end{array}$$

3 Find the missing numbers.

(a)

3	12
11	6

7	28
14	9

6	A
12	B

(b)

4	11
1	8

8	6
9	A

10	6
B	12

4 Find the missing numbers by filling in the correct answers.

(a)

1	2	3	6
---	---	---	---

4	5	6	15
---	---	---	----

7	8	9	
---	---	---	--

(b)

7	4	5	15
---	---	---	----

8	6	10	20
---	---	----	----

9	5	8	
---	---	---	--



Looking for a Pattern

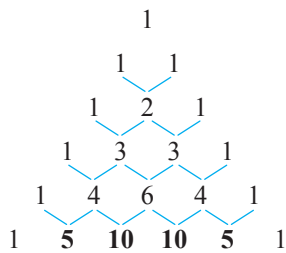
1

(a) 5, 6, 10, 12, 15, 18, 20, 24, ...

(b) 6, 9, 13, 18, 24, 31, 39, ...

(c) 1, 3, 9, 27, 81, 243, ...

(d) 1, 3, 6, 8, 16, 18, 36, 38, ...

2**3**

(a) $3 \times 4 = 12$ $11 - 6 = 5$
 $7 \times 4 = 28$ $14 - 9 = 5$
 $6 \times 4 = A$ $12 - B = 5$
 $A = 24$ $B = 7$

(b) $4 + 8 = 1 + 11 = 12$
 $8 + A = 9 + 6 = 15$ $A = 7$
 $10 + 12 = 22 = B + 6$ $B = 16$

4

(a) $1 + 2 + 3 = 6$
 $4 + 5 + 6 = 15$
 $7 + 8 + 9 = 24$

(b) $7 - 4 = 3$ $3 \times 5 = 15$
 $8 - 6 = 2$ $2 \times 10 = 20$
 $9 - 5 = 4$ $4 \times 8 = 32$