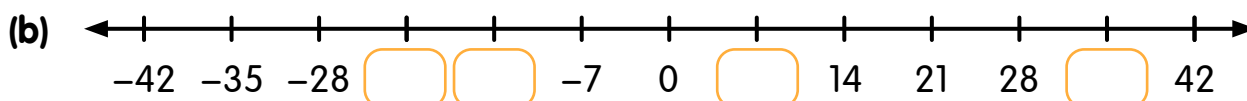
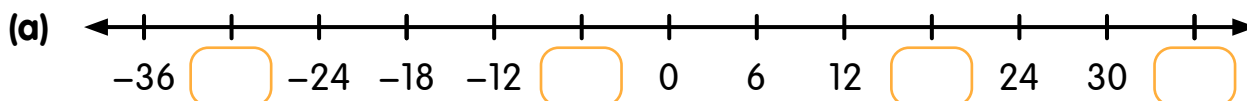


Chapter A More on Numbers

Worksheet 1 Number Sequence

1 Fill in the missing numbers.



2 The following numbers are shown.



1st term

The **rule** is to add to find the next number.

The 6th term is .



1st term

The **rule** is to add to find the next number.

The 3rd term is .

(c)

-17

-13

A

-5

-1

B

The **rule** is to add to find the next number.

A =

B =

(d)

-22

-16

-10

C

D

8

The **rule** is to add to find the next number.

C =

D =

- 3 Find the missing numbers.
Show your working.

(a)

9

?

?

?

29

(b)

15

?

?

?

?

50

Worksheet 2 Square Numbers and Triangle Numbers**1** Study the figures.

Figure 1

Figure 2

Figure 3

Figure 4

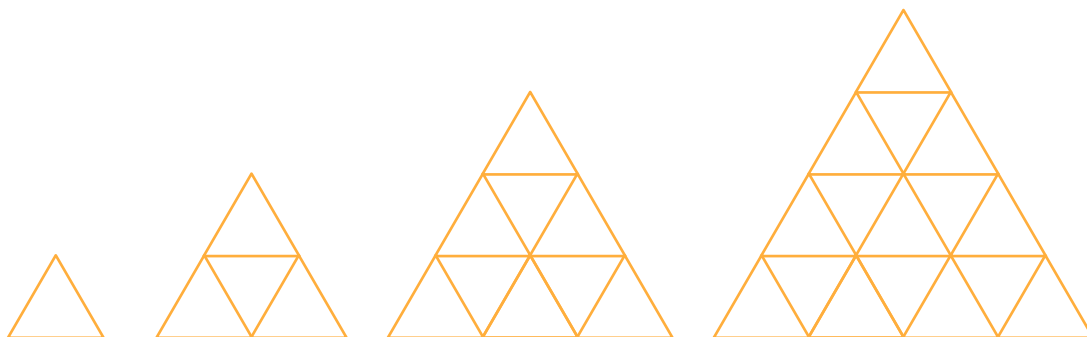


	Figure 1	Figure 2	Figure 3	Figure 4
Number of small triangles				

(a) What type of numbers are the figures based on?

Tick (✓) the correct answer.

Square numbers

☐

Triangular numbers

☐**(b)** How many small triangles are there in the 10th term?**2** Write these numbers as a square number.**(a)**

64 =

(b)

81 =

3 Fill in the boxes.**(a)** $5^2 =$ **(b)** $7^2 =$ **4** The first term of the pattern of square numbers is 1.

What is the 6th term?

5 Study the figures.

Figure 1

Figure 2

Figure 3

Figure 4

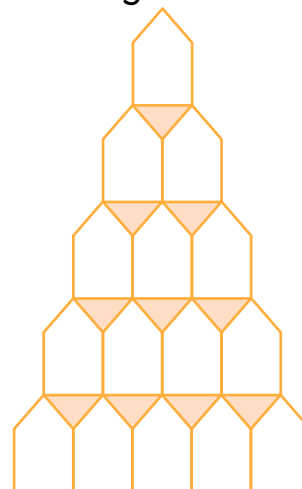
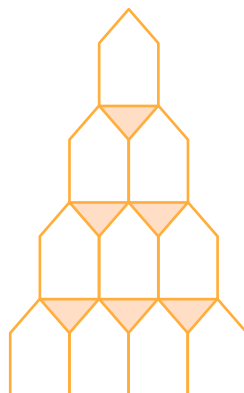
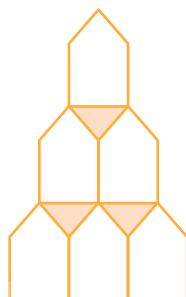
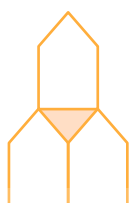


	Figure 1	Figure 2	Figure 3	Figure 4
Number of shaded triangles				

(a) What type of numbers are the shaded triangles based on?
Tick (✓) the correct answer.

Square numbers

☐

Triangular numbers

☐

(b) How many small triangles are there in the 7th term?

6 In a sequence based on triangular numbers, the first term is 1.

What is the 10th term?

Show how you solve the problem without adding each number in the sequence from left to right.

Worksheet 3 Prime Numbers and Composite Numbers

- 1 Which of the two numbers is a prime number?

Explain your answer.

(a)

7

9

☐ is a prime number because:

(b)

95

59

☐ is a prime number because:

- 2 Circle all the prime numbers.

79

15

76

2

1

97

29

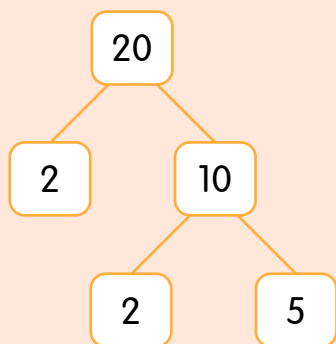
67

51

87

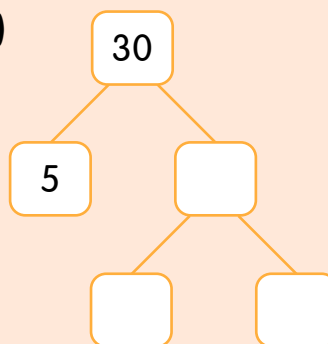
- 3 Break up the composite number at the top into its factors.
Then find the prime factors.

Example



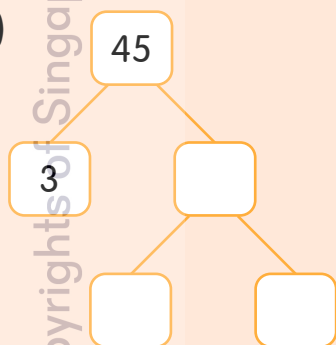
The prime factors of 20 are 2 and 5.

(a)



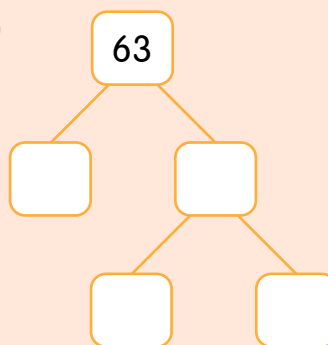
The prime factors of 30 are , and .

(b)



The prime factors of 45 are and .

(c)



The prime factors of 63 are and .