Lesson 56 • Number lines 11 to 20

Learning objectives

Children will:

- identify correct numerical order 1–20.
- order numbers from 11 to 20.
- use a number line to add.

Australian Curriculum Content Descriptions

Number and Algebra

Number and place value

ACMNA012 Develop fluency with forwards and backwards counting.

ACMNA013 Recognise, model, read, write and order numbers to at least 100; locate these numbers on a number line; identify numbers that are represented on a number line and place numbers on a prepared number line.

ACMNA015 Represent and solve simple addition and subtraction problems using a range of strategies including counting on, partitioning and rearranging parts.

Key vocabulary

number line, numerals 0–20, count, forward, back, order, smallest, largest, number, sums, add, +, =, number words fourteen to twenty

Extra assistance

When students develop confidence in the counting sequence they should be able to name the number before or after a given number, begin counting from any number, and count backwards as well as forwards. The visual prompt of a number line can help develop fluency in this area. These number line skills will aid students later on in adding and subtracting on the number line with larger numbers.

Classroom activities

Order, Order!

Give pairs of students a set of cards for the numerals 0–20. Ask them to lay the cards out in correct order. Next they race to put them in reverse order, 20–0. Say 'ready, set, go!' Praise the fastest. Race again to put them back in counting order. Repeat until they have had enough.

Jump to it!

Draw a large number line 0–20 on the playground. Ask individual students to stand on a given number. Then ask students to stand on the number before or after a given number. Next, ask students to stand on a number and jump forwards or backwards a number of places. Finally, ask students to stand on a number and then add another number.

Mathseeds Lesson sequence	TEACH Content and skills	PRACTISE Children will:	APPLY
Animated Lesson: Order and count	Understand that a number line has the numbers 1–20 in counting order.	count along the number line 1–20. Put the numbers 11–20 in order on the number line.	**Worksheet 1** Counting
Order: Lily Pads, Out of Line, Dot to Dot	Identify correct numerical order.	put numerals in their correct place on the number line. Join the dots in numerical order.	**Worksheet 2** Number lines
Number lines: Number Line Train, Number Line Sums	Understand moving a marker back and forth along a number line. Add two numbers using a number line.	move a marker forwards and backwards on a number line. Jump along a number line to find the answer to an addition sum.	**Worksheet 3** Addition
Find: Number Grid, Pegs, Number Fish	Visual discrimination: identify the numeral 19. Recognise a given number of objects.	select the numeral 19 amongst other numerals. Count and select the groups which match the given number.	**Worksheet 4** Check
Read: Book	Read aloud book.	listen, follow the reading and read along.	**Mathseeds book 47:** Add on a Number Line
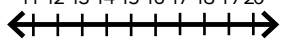
Name

1 Complete the number line.

11			14	

16		18		

2 Join the pieces together to make number lines.
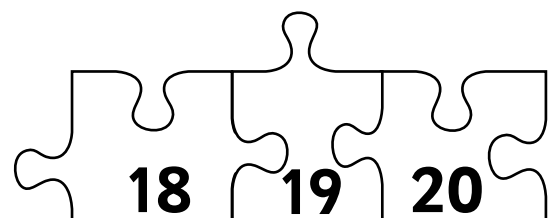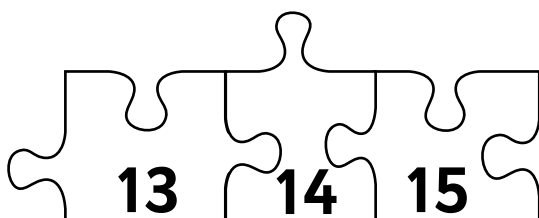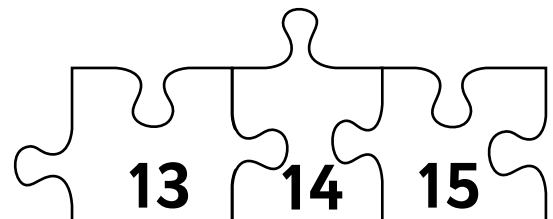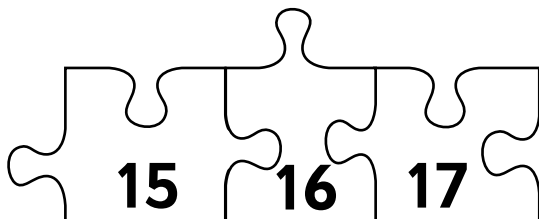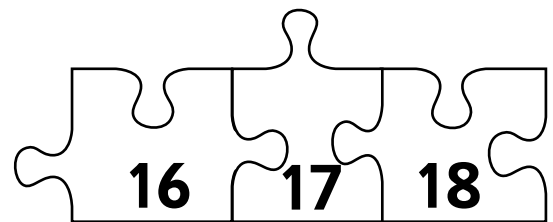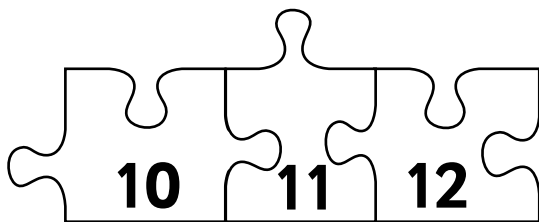
10 11 12   16 17 18

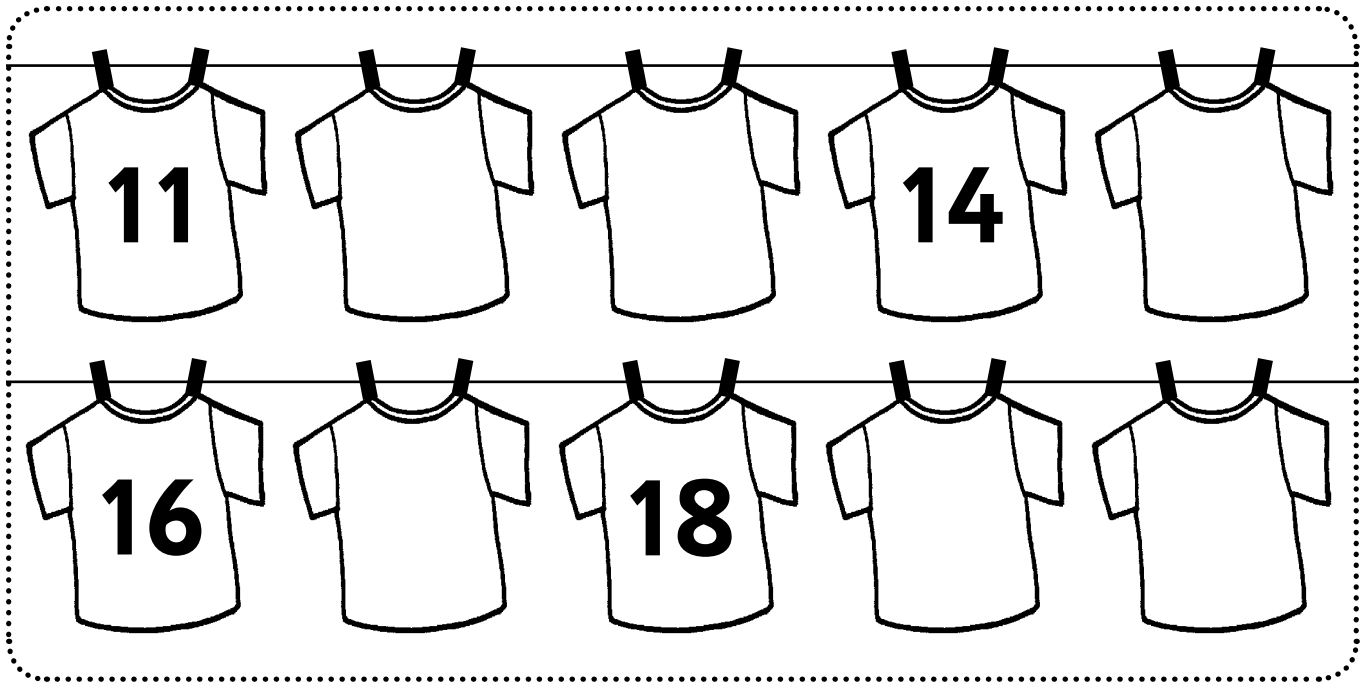15 16 17   13 14 15

13 14 15   18 19 20

Number lines 11 – 20

Lesson 56 • Worksheet 2   **Number lines**

Name

1 Count forwards 4 places. Circle the number.

10   11   12   13   14   15   16   17   18   19   20

10   11   12   13   14   15   16   17   18   19   20

2 Count backwards 4 places. Circle the number.

10   11   12   13   14   15   16   17   18   19   20

10   11   12   13   14   15   16   17   18   19   20

3 Which number is

before 12? ☐   after 17? ☐

before 20? ☐   after 13? ☐
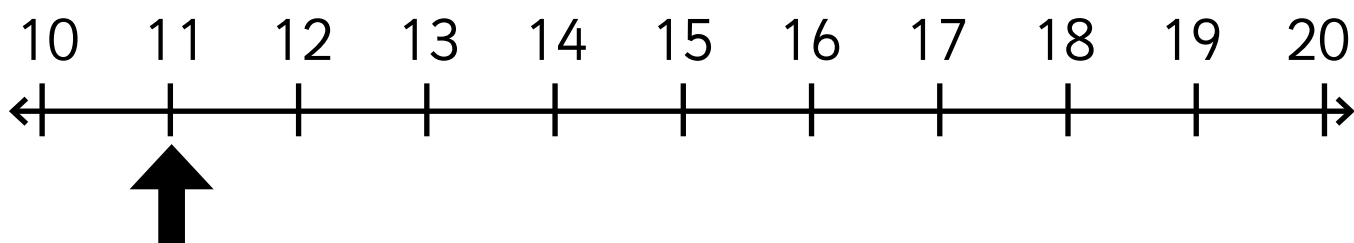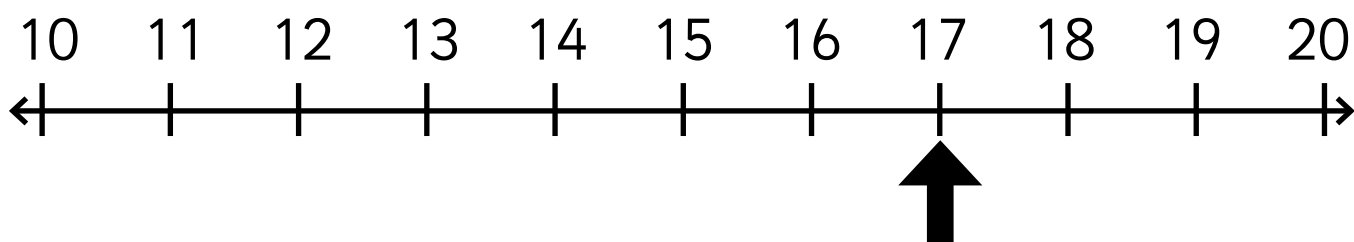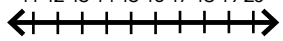
Lesson 56 • Worksheet 3 **Addition**

Name

Jump along the number lines to add.

0 1 2 ③ 4 5 6 7 8 9 10

$$3 + 1 = \boxed{}$$

0 1 2 3 ④ 5 6 7 8 9 10

$$4 + 2 = \boxed{}$$

0 1 2 3 4 ⑤ 6 7 8 9 10

$$5 + 3 = \boxed{}$$

0 1 2 3 4 5 6 ⑦ 8 9 10
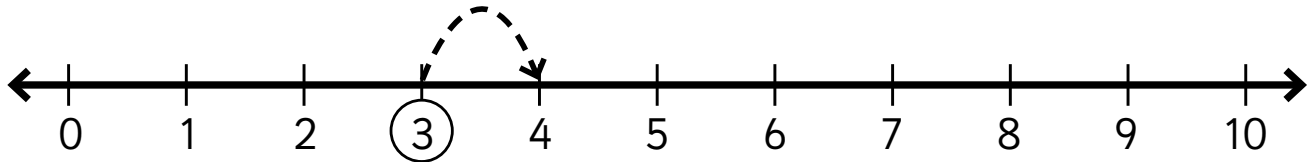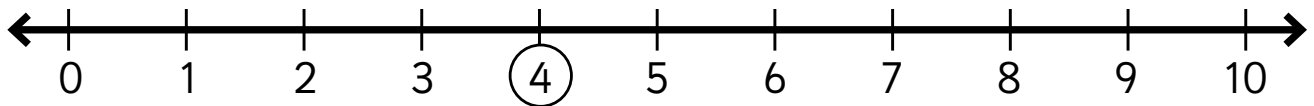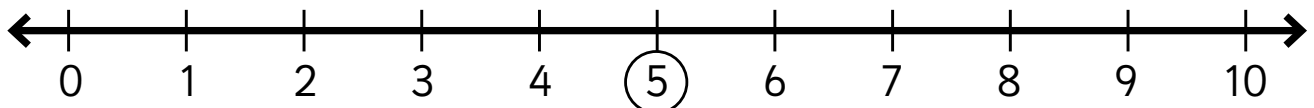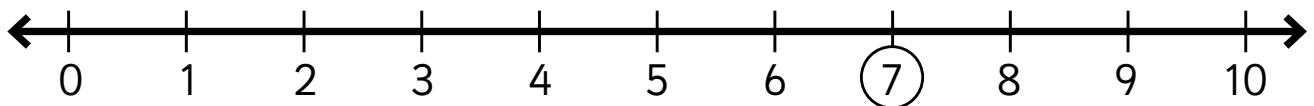
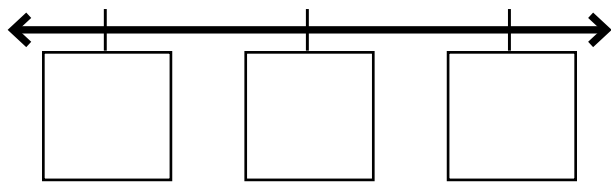$$7 + 2 = \boxed{}$$
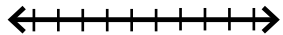
Number lines 11 – 20
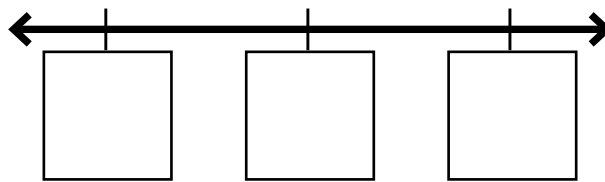
Lesson 56 • Worksheet 4   **Check**
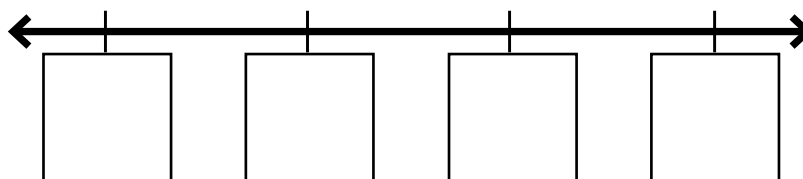
Name

1 Order the numbers on the number lines.

13 12 11

15 14 16

17 20 19 18

2 Write the missing number in each row.

20 [ ] 18 17

14 13 [ ] 11