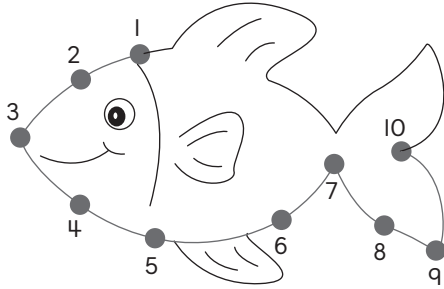# ANSWERS

Chapter 1   NUMBERS TO 10

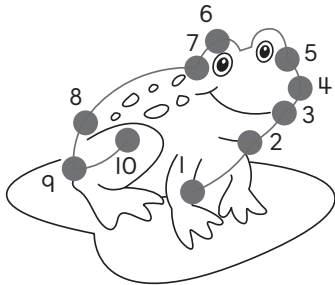**Exercise 1A   Count**
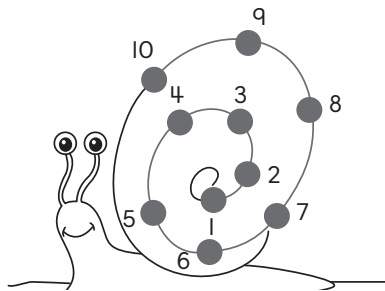
1.   **(a)**

(b)

(c)

(d)

2.   **(a)**

| 10 | 9 | 8 | 7 | 6 | 5 |

(b)

| 9 | 8 | 7 | 6 | 5 | 4 |

(c)

| 4 | 5 | 6 | 7 | 8 | 9 |

(d)

| 2 | 3 | 4 | 5 | 6 | 7 |

Exercise 1B   Compare Numbers (1)

1.   **(a)**

There are __more__ frogs than dragonflies.

(b)

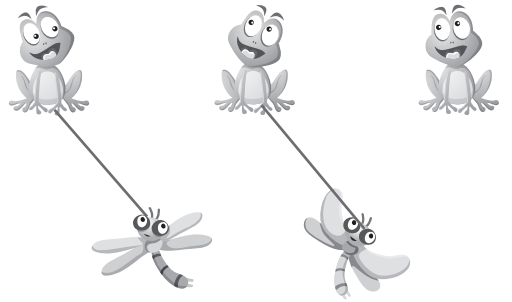There are __fewer__ foxes than mice.

2.

3. (a)

☒ ☐
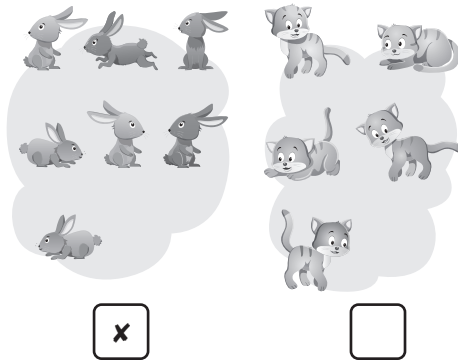
(b)

☐ ☒
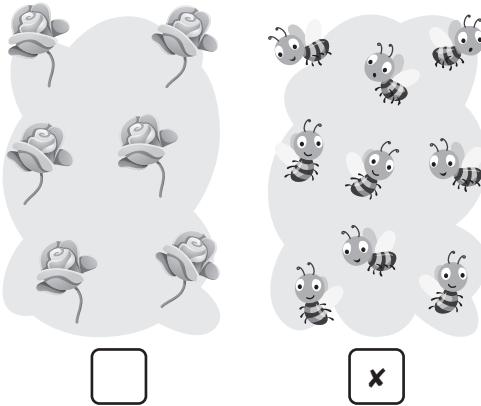
4. (a)

☒ ☐
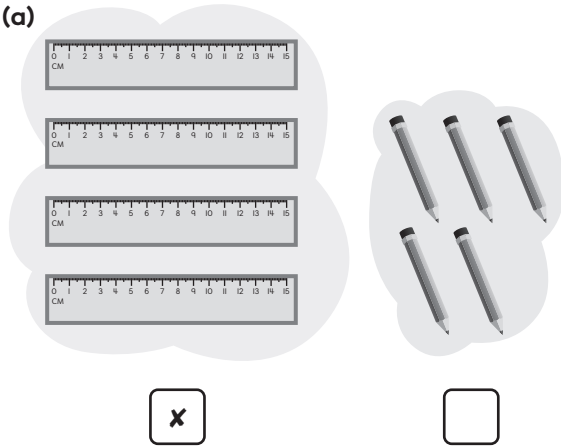
(b)

☐ ☒
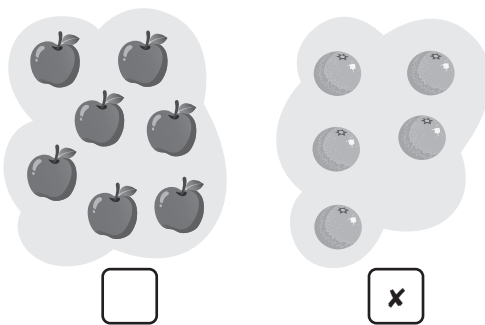
Exercise IB   Compare Numbers (2)

1. (a) 3   (b) 2   (c) 2   (d) 3

2. (a) There are ___2___ more [papayas / bananas] than [papayas / bananas].

(b) There are ___4___ more [fish / cats] than [fish / cats].
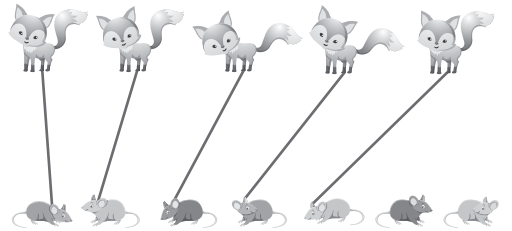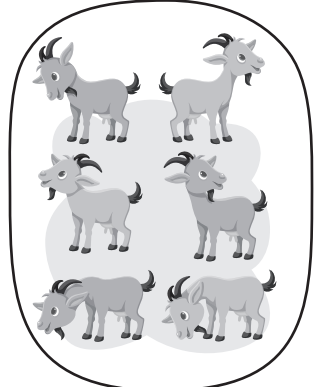
(c) There are ___6___ fewer [tables / chairs] than [tables / chairs].

Exercise IB   Compare Numbers (3)

1. (a) greater   (b) less
   (c) less

2. (a) greater   (b) less
   (c) greater   (d) less
   (e) greater
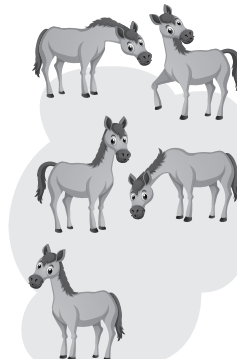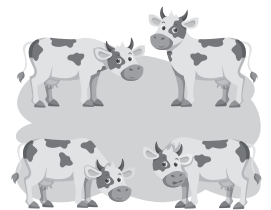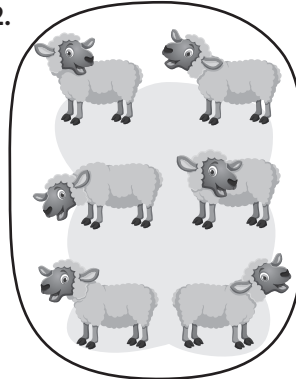
3. (a) 5   (b) 8

4. (a) 4   (b) 5

Exercise IB   Compare Numbers (4)

1. (a)

I more than 3 is ___4___.

(b)

I more than 6 is ___7___.

(c)

___8___ is I more than 7.

2. (a) 4   (b) 8
   (c) 3   (d) I
   (e) 3   (f) 8

3. (a) 3   (b) 6
   (c) I   (d) 9
   (e) 0

Additional Practice Grade IA

Exercise IB   Compare Numbers (5)

I. (a)

I less than 10 is ___9___.

(b)

I less than 6 is ___5___.

(c)

___8___ is I less than 9.

2.

I less than 4 is

I more than 5 is

I less than 8 is

I more than 3 is

I less than 2 is

I more than 7 is

| 0 | I | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

is I less than 3

is I less than 10

is I more than 9

is I more than 2

is I more than 6

Exercise IC   Number Bonds (I)

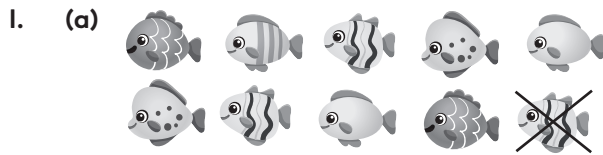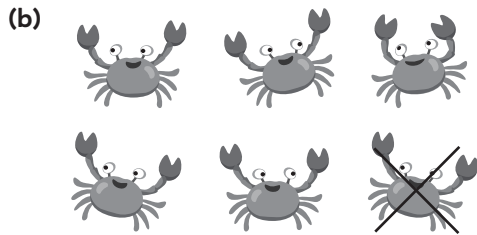**I. (a)**

(b)

(c)

2. (a)

(b)
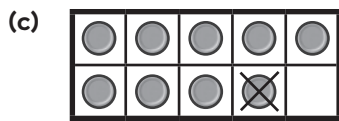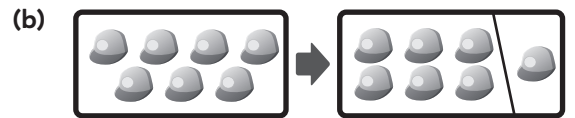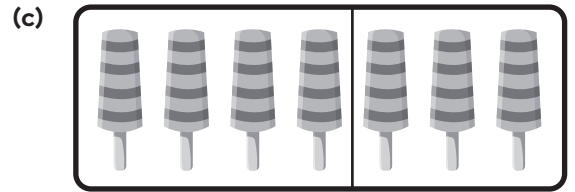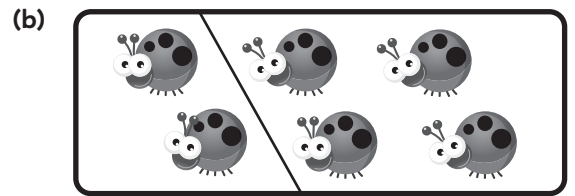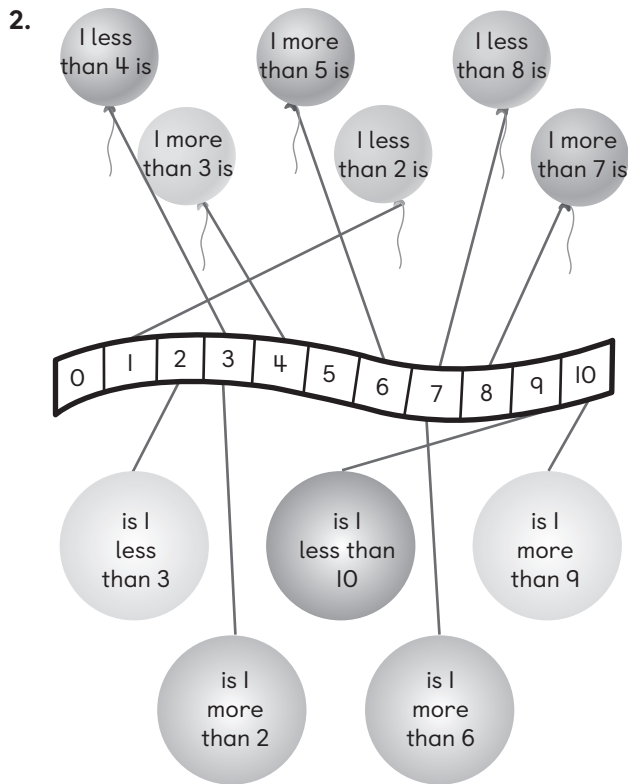
3. (a) 3   **(b)** 5   **(c)** I   **(d)** 3

Exercise IC   Number Bonds (2)

I.	**(a)** 5	**(b)** 5
	(c) 2	**(d)** 2
	(e) 4	**(f)** 9

2.	**(a)** 8	**(b)** 8
	(c) 7	**(d)** 5
	(e) 5	**(f)** 4
	(g) 6	**(h)** 7

Chapter Practice

I.   D

2. (a)

									10
								9	
							8		
						7			
					6				
				5					
			4						
		3							
	2								
I									

(b)

10   9   5

8   6   4

7   3

2   I
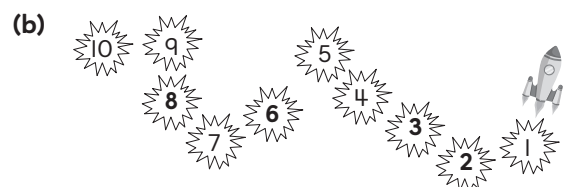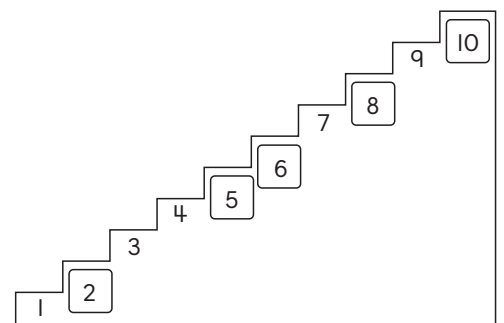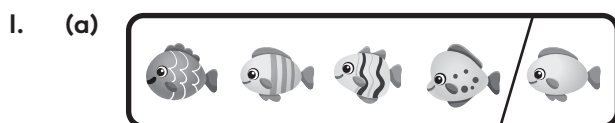
3. There are more _forks_ than _spoons_.

How many more? _3_

4. **(a)** Megan   **(b)** Caleb; Ben   **(c)** Ben

5. **(a)** greater   **(b)** less

6. **(a)** 6   **(b)** 4   **(c)** 8   **(d)** 6

7. **(a)** 8   **(b)** 2
    (c) 3   **(d)** 6

8. A number that is less than 5 yet greater than 2 can be 3 or 4.
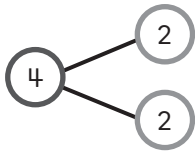
Since 4 can be made up of 2 and 2, the number Gina is thinking of is 4.

9. Accept all correct answers.
Example:
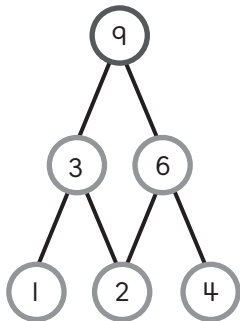
Chapter 2   ADDITION WITHIN 10

Exercise 2A   Make Addition Stories (1)

1. **(a)** There are 6 cups on the table.

Peter places _4_ more cups on the table.

There are _10_ cups on the table in all.

(b) Claire has 4 balloons.

She buys _3_ more balloons.

Claire has _7_ balloons in all.

2. **(a)** There are _5_ rabbits.

_2_ more rabbits join them.

_5_ + _2_ = _7_

There are _7_ rabbits in all.

(b) There are _3_ books on the shelf.

Sophia puts _6_ more books on the shelf.

_3_ + _6_ = _9_

There are _9_ books on the shelf in all.

Exercise 2A   Make Addition Stories (2)

1. **(a)** There are _2_ black shirts.

There are _3_ gray shirts.

_2_ + _3_ = _5_

There are _5_ shirts in all.

(b) There are _4_ small fish.

There are _4_ big fish.

_4_ + _4_ = _8_

There are _8_ fish in all.

2. **(a)** _2_ monkeys are on the tree.

_4_ monkeys are not on the tree.

_2_ (+) _4_ = _6_

There are _6_ monkeys in all.

(b) A child is riding _1_ bicycle.

There is nobody on _2_ bicycles.

_1_ (+) _2_ = _3_

There are _3_ bicycles in all.

Exercise 2B   Ways to Add (1)

1. **(a)** 7   **(b)** 4

    (c) 6   **(d)** 9

    (e) 5   **(f)** 5

2. **(a)** 6   **(b)** 8

    (c) 7   **(d)** 6

3. **(a)** 2   **(b)** 2
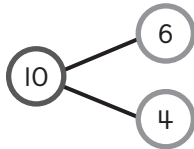
    (c) 4   **(d)** 4

4. **(a)** $4 + 0 = 4$
The equation is false.

(b) $0 + 9 = 9$
The equation is true.

Exercise 2B Ways to Add (2)

I. **(a)** $4 + 2 = \underline{\hspace{0.3cm} 6 \hspace{0.3cm}}$

$2 + 4 = \underline{\hspace{0.3cm} 6 \hspace{0.3cm}}$

(b) $\underline{\hspace{0.3cm} 6 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 4 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 10 \hspace{0.3cm}}$

$\underline{\hspace{0.3cm} 4 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 6 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 10 \hspace{0.3cm}}$
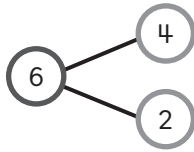
2. **(a)** 9

(b) 8
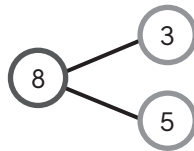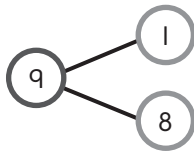
(c) 10

(d) 4
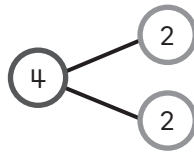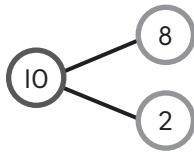
(e) 5

(f) 9
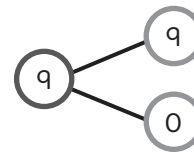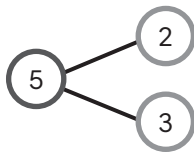
Exercise 2B Ways to Add (3)

I. **(a)** $5 + 2 = 3 + 4$
7   7
true

(b) false

(c) true   **(d)** false

2. **(a)** I   **(b)** 7   **(c)** 0   **(d)** 2

3. **(a)** Accept all correct answers. Example:

$\underline{\hspace{0.3cm} 1 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 8 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 3 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 6 \hspace{0.3cm}}$

(b) Accept all correct answers. Example:

$\underline{\hspace{0.3cm} 3 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 4 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 7 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 0 \hspace{0.3cm}}$
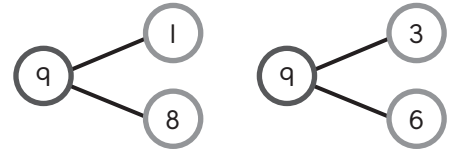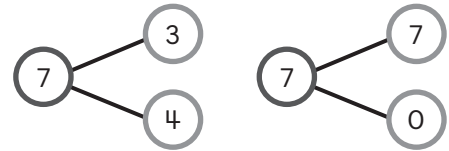
(c) Accept all correct explanations. Example:
For **(a)**, the answer to the addition equation on each side is 9.
For **(b)**, the answer to the addition equation on each side is 7.

Chapter Practice

I. B

2.
| $2 + 4 = 5 - 3$ | $6 + 4 = 5 + 5$ |
| $7 + 1 = 5 + 3$ | $8 + 1 = 4 + 4$ |

(7 + 1 = 5 + 3 and 6 + 4 = 5 + 5 are circled)

3. There are $\underline{\hspace{0.3cm} 2 \hspace{0.3cm}}$ frogs on a lily pad.

$\underline{\hspace{0.3cm} 4 \hspace{0.3cm}}$ more frogs join them.

$\underline{\hspace{0.3cm} 2 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 4 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 6 \hspace{0.3cm}}$

There are $\underline{\hspace{0.3cm} 6 \hspace{0.3cm}}$ frogs in all.

4. **(a)**

(b) $5 + 3 = \underline{\hspace{0.3cm} 8 \hspace{0.3cm}}$

There are $\underline{\hspace{0.3cm} 8 \hspace{0.3cm}}$ children in all.

5. **(a)**

(b) $\underline{\hspace{0.3cm} 1 \hspace{0.3cm}} + \underline{\hspace{0.3cm} 4 \hspace{0.3cm}} = \underline{\hspace{0.3cm} 5 \hspace{0.3cm}}$
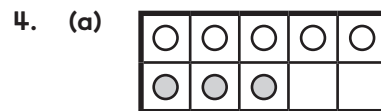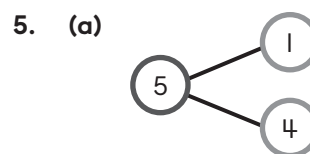
There are $\underline{\hspace{0.3cm} 5 \hspace{0.3cm}}$ butterflies in all.

6. (a)

(b) $\underline{0} + \underline{6} = \underline{6}$ or

$\underline{6} + \underline{0} = \underline{6}$;

$\underline{1} + \underline{5} = \underline{6}$ or

$\underline{5} + \underline{1} = \underline{6}$;

$\underline{2} + \underline{4} = \underline{6}$ or

$\underline{4} + \underline{2} = \underline{6}$;
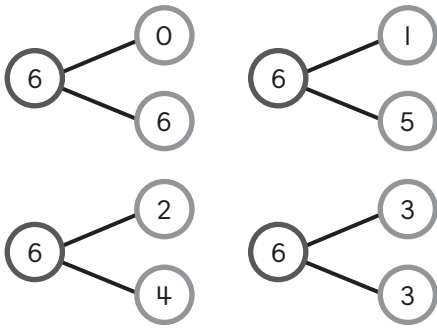
$\underline{3} + \underline{3} = \underline{6}$

(c) In the last number bond, the numbers in both parts are the same so it will only give one addition equation.

7. Accept all correct answers.
Example:

2	7	9
8	1	9
10	8	

8.
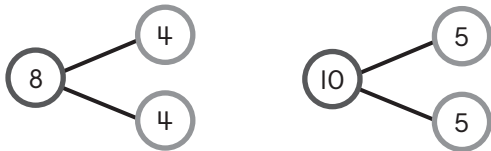
Chapter 3 SUBTRACTION WITHIN 10

Exercise 3A Make Subtraction Stories (1)

1. (a) There are 7 ants.

$\underline{2}$ ants crawl away.

$\underline{7} - \underline{2} = \underline{5}$

There are $\underline{5}$ ants left.

(b) There are 5 mangoes.

Mason takes $\underline{2}$ mangoes away.

$\underline{5} - \underline{2} = \underline{3}$

There are $\underline{3}$ mangoes left.

(c) There are $\underline{4}$ tricycles.

David rides $\underline{1}$ tricycle away.

$\underline{4}$ (−) $\underline{1} = \underline{3}$

There are $\underline{3}$ tricycles left.

(d) There are $\underline{10}$ birds in all.

$\underline{4}$ birds fly away.

$\underline{10}$ (−) $\underline{4} = \underline{6}$

There are $\underline{6}$ birds left.

Exercise 3A Make Subtraction Stories (2)

1. (a) There are $\underline{9}$ eggs.

$\underline{3}$ eggs are broken.

$\underline{9}$ (−) $\underline{3} = \underline{6}$

$\underline{6}$ eggs are not broken.

(b) There are $\underline{7}$ pieces of fruit.

$\underline{2}$ of them are bananas.

$\underline{7}$ (−) $\underline{2} = \underline{5}$

There are $\underline{5}$ papayas.

(c) There are $\underline{8}$ animals in all.

There are $\underline{3}$ mice.

$\underline{8}$ (−) $\underline{3} = \underline{5}$

There are $\underline{5}$ cats.

(d) There are $\underline{9}$ elephants in all.

$\underline{5}$ elephants are drinking.

$\underline{9}$ (−) $\underline{5} = \underline{4}$

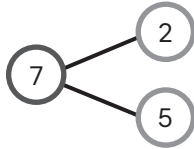$\underline{4}$ elephants are not drinking.

Exercise 3B Ways to Subtract (1)
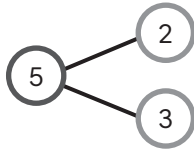
1. (a) 6   (b) 4
   (c) 4   (d) 6
   (e) 1   (f) 6

2. (a) 4   (b) 5
   (c) 3   (d) 6

3. (a) 3   (b) 4
   (c) 2   (d) 3

4. (a) 6 cannot be subtracted from 0.
   The equation is false.

   (b) $7 - 0 = 7$
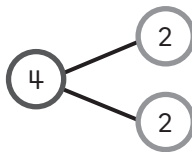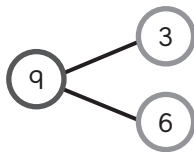   The equation is true.

Exercise 3B Ways to Subtract (2)
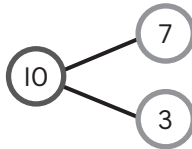
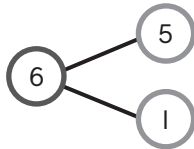1. (a) $7 - 2 = \underline{5}$
   $7 - 5 = \underline{2}$

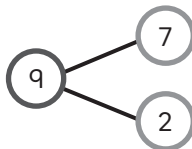   (b) $\underline{5} - \underline{2} = \underline{3}$
   $\underline{5} - \underline{3} = \underline{2}$

2. (a) 6   (b) 2

   (c) 1   (d) 3

   (e) 4   (f) 2
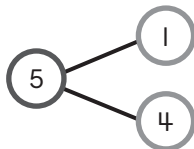
Exercise 3B Ways to Subtract (3)

1. $6 \; \boxed{+} \; 4 = 10$ $4 \; \boxed{+} \; 6 = 10$

   $10 \; \boxed{-} \; 4 = 6$ $10 \; \boxed{-} \; 6 = 4$

2. $\underline{5} \; \boxed{+} \; \underline{4} = \underline{9}$

   $\underline{4} \; \boxed{+} \; \underline{5} = \underline{9}$

   $\underline{9} \; \boxed{-} \; \underline{4} = \underline{5}$

   $\underline{9} \; \boxed{-} \; \underline{5} = \underline{4}$

3. (a) $\underline{3} \; \boxed{+} \; \underline{2} = \underline{5}$

   $\underline{2} \; \boxed{+} \; \underline{3} = \underline{5}$

   $\underline{5} \; \boxed{-} \; \underline{3} = \underline{2}$

   $\underline{5} \; \boxed{-} \; \underline{2} = \underline{3}$

   (b) $\underline{8} \; \boxed{+} \; \underline{0} = \underline{8}$,

   $\underline{0} \; \boxed{+} \; \underline{8} = \underline{8}$

   $\underline{8} \; \boxed{-} \; \underline{0} = \underline{8}$

   $\underline{8} \; \boxed{-} \; \underline{8} = \underline{0}$

Exercise 3C Compare Numbers by Subtraction

1. (a) $9 - 4 = \underline{5}$

   There are $\underline{5}$ more saucers than cups.

   (b) $8 - 5 = \underline{3}$

   There are $\underline{3}$ more kittens than balls of yarn.

   (c) $\underline{5} - \underline{3} = \underline{2}$

   There are $\underline{2}$ fewer footballs than badminton rackets.

   (d) $\underline{6} - \underline{4} = \underline{2}$

   There are $\underline{2}$ fewer basketballs than children.

Chapter Practice

1. C

2. 5

3. There are __8__ bees at first.

__2__ bees fly away.

__8__ (−) __2__ = __6__

There are __6__ bees left.

4. There are __8__ sheep.

__3__ sheep are white.

__8__ (−) __3__ = __5__

__5__ sheep are not white.

5. **(a)**
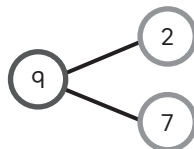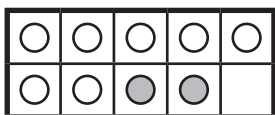
(b) __9__ (−) __2__ = __7__

There are __7__ children left.

(c) __9__ − __2__ = __7__

__9__ − __7__ = __2__

__7__ + __2__ = __9__

__2__ + __7__ = __9__

6. Accept all correct answers.
Example:

10	7	3
8	5	3
2	2	

7. **(a)** No, I do not agree with Jane.
According to Jane's guess, the number of green marbles is only 3 fewer than the blue marbles which is incorrect.

(b)

Blue marbles				Green marbles
6	−	4	=	2
5	−	4	=	1

There are two possible answers:
I green marble and 5 blue marbles, and
2 green marbles and 6 blue marbles.

Chapter 4   NUMBERS TO 20

Exercise 4A   Count to 20

1. **(a)** 13   **(b)** 11
   (c) 12   **(d)** 20
   (e) 16   **(f)** 19

2. **(a)** 11   **(b)** 16
   (c) 12   **(d)** 17
   (e) 13   **(f)** 18
   (g) 14   **(h)** 19

3. **(a)**

__17__

(b)

__13__
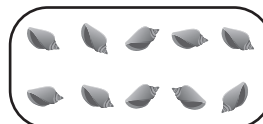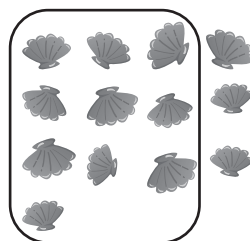
4. **(a)**
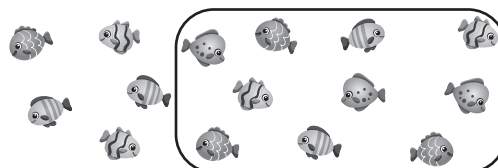
10 and __5__ make __15__.

(b)
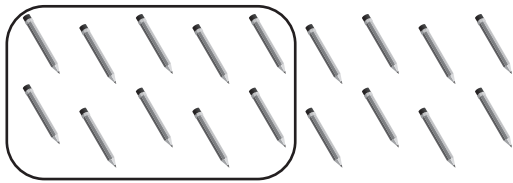
10 and __8__ make __18__.

(c)
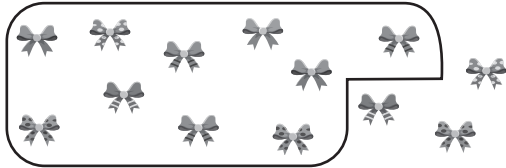
10 and __3__ make __13__.

(d)

17 is 10 and __7__.

(e)
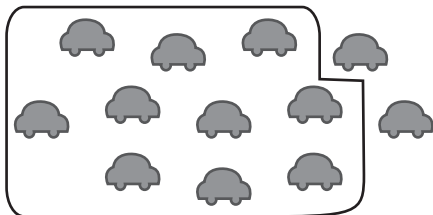
12 is 10 and __2__.

5. **(a)** 1 **(b)** 10 **(c)** 10 **(d)** 10

Exercise 4B   Compare and Order Numbers

1. **(a)** 11 **(b)** 13 **(c)** 14

2. **(a)** 16 **(b)** 19 **(c)** 18

3. **(a)** < **(b)** > **(c)** < **(d)** =

4. 18

5. 11

6. 20, 18, 15, 14, 11

7. Yes, I agree with Susan.
Accept all correct explanations.
Example:
16 is 10 and 6.
12 is 10 and 2.
Both numbers have a 10 but different ones.
Since 6 is greater than 2, 16 is greater than 12.

Chapter Practice

1. D

2. **(a)** 18 **(b)** 15

3.
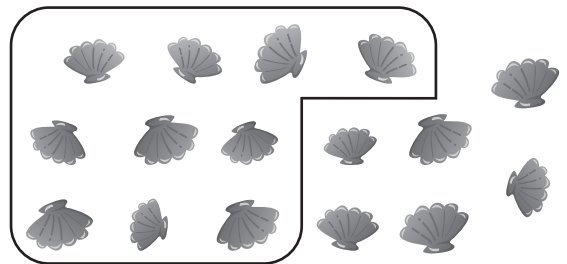
10 and __6__ make __16__.

4. **(a)** > **(b)** <
   (c) > **(d)** <
   (e) > **(f)** =

5. **(a)** 20; D **(b)** 7; A
   (c) __A__, __E__, __C__, __B__, __D__
   least   greatest

6. 17

7. 15

8.

13	14	15	16
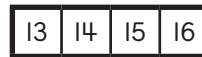
Abel has 13 toy cars.
Tania and Chloe have more toy cars than Abel.
Tania and Chloe have fewer than 16 cars each.
They can have 14 or 15 toy cars.
Tania has fewer toy cars than Chloe.
Tania has __14__ toy cars.
Chloe has __15__ toy cars.

9. Beth: 19; Tim: 15

15	16	17	18	19	20

For Beth, the missing number is greater than 18 but less than 20.
So that leaves 19.

13	14	15	16	17

For Tim, the missing number is less than 16 but greater than 14.
So that leaves 15.

Ltd
© 2022 Marshall Cavendish Education Pte Ltd
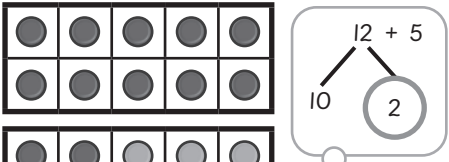
Chapter 5   ADDITION AND SUBTRACTION WITHIN 20

Exercise 5A   Addition (1)

1. **(a)** 11   **(b)** 11
    (c) 12   **(d)** 11
    (e) 12   **(f)** 13

2. **(a)** 13   **(b)** 16
    (c) 19   **(d)** 17
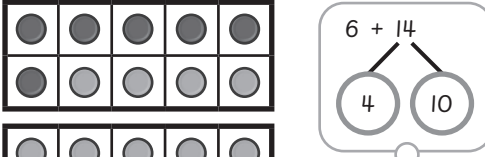
3. **(a)** 2; 2
    (b) 2   **(c)** 3
    (d) 4   **(e)** 3
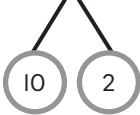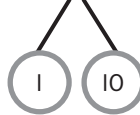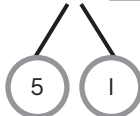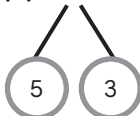   **(f)** 4   **(g)** 4

Exercise 5A   Addition (2)

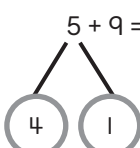1. **(a)**

$12 + 5 = \underline{17}$

(b)

$6 + 14 = \underline{20}$

2. **(a)** $12 + 7 = \underline{19}$ **(b)** $6 + 11 = \underline{17}$

(10)(2)   (1)(10)

(c) $5 + 13 = \underline{18}$ **(d)** $13 + 3 = \underline{16}$

3. **(a)** $4 + 2 = \underline{6}$ **(b)** $1 + 7 = \underline{8}$
    $14 + 2 = \underline{16}$ $11 + 7 = \underline{18}$
    $4 + 12 = \underline{16}$ $1 + 17 = \underline{18}$
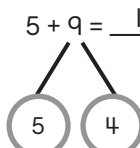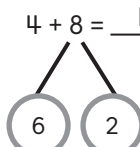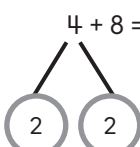
4. **(a)** 15   **(b)** 20
    (c) 3   **(d)** 8

Exercise 5A   Addition (3)
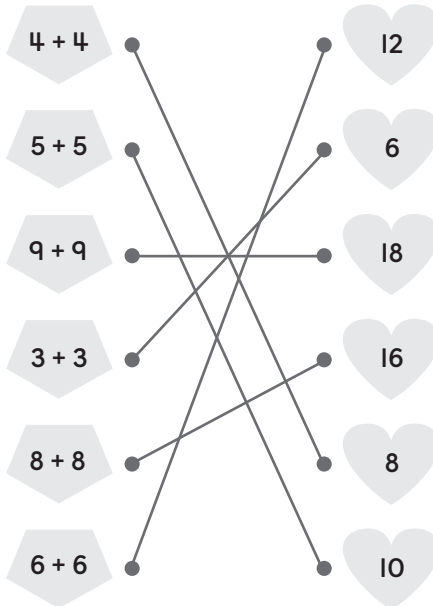
1. **(a)** $5 + 6 = \underline{11}$ **(b)** $8 + 7 = \underline{15}$

(5)(1)   (5)(3)

2. **(a)**   **Way 1**   **Way 2**

$5 + 9 = \underline{14}$ $5 + 9 = \underline{14}$

(5)(4)   (4)(1)

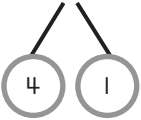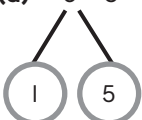**(b)**   **Way 1**   **Way 2**

$4 + 8 = \underline{12}$ $4 + 8 = \underline{12}$

(6)(2)   (2)(2)

3. **(a)** 16   **(b)** 11
    (c) 14   **(d)** 12
    (e) 17   **(f)** 13
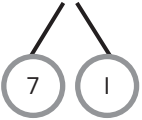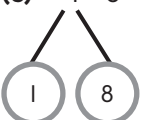
Exercise 5A   Addition (4)

1.

2. **(a)** 4   **(b)** 20   **(c)** 14

3. **(a)** 4 + 5 = __9__ **(b)** 7 + 8 = __15__

          (4) (1)   (7) (1)

(c) 9 + 8 = __17__ **(d)** 6 + 5 = __11__

      (1) (8)   (1) (5)
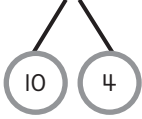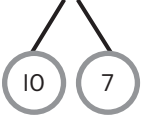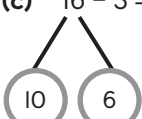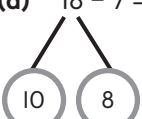
4. **(a)** 5   **(b)** 14

5. **(a)** 12   **(b)** 10
    (c) 15   **(d)** 19
    (e) 9   **(f)** 13
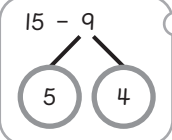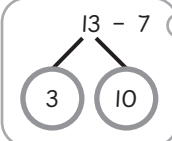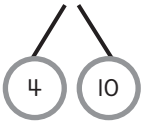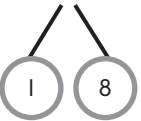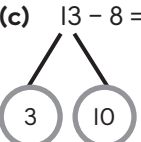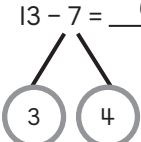
Exercise 5A Addition (5)

1. **(a)** 10; 14   **(b)** 10; 17
    (c) 10; 16   **(d)** 10; 11
    (e) 10; 18   **(f)** 10; 20
    (g) 10; 18   **(h)** 10; 15

2. **(a)** 17   **(b)** 13
    (c) 15   **(d)** 14
    (e) 20   **(f)** 19

3. **(a)** 2   **(b)** 9
    (c) 9   **(d)** 5
    (e) 6   **(f)** 3

Exercise 5B Subtraction (1)

1. **(a)** 14 − 3 = __11__ **(b)** 17 − 5 = __12__

      (10) (4)   (10) (7)

(c) 16 − 3 = __13__ **(d)** 18 − 7 = __11__

      (10) (6)   (10) (8)

2. **(a)** 4; 14   **(b)** 5; 15
    (c) 1; 11   **(d)** 4; 14
    (e) 2; 12   **(f)** 5; 15

3. **(a)** 10   **(b)** 10
    (c) 13   **(d)** 13
    (e) 11   **(f)** 12

Exercise 5B Subtraction (2)

1. 15 − 9

   (5) (4)

  15 − 9 = __6__

2. 13 − 7

   (3) (10)

  13 − 7 = __6__

3. **(a)** 14 − 7 = __7__ **(b)** 11 − 9 = __2__

     (4) (10)   (1) (8)

(c) 13 − 8 = __5__ **(d)** 13 − 7 = __6__

     (3) (10)   (3) (4)

4.

11 − 4	11
19 − 8	8
14 − 6	4
12 − 8	7

Exercise 5B Subtraction (3)

1. **(a)** 12   **(b)** 7
    (c) 9   **(d)** 12
    (e) 14   **(f)** 8

2. **(a)** 2; 2
    (b) 3   **(c)** 2
    (d) 4   **(e)** 1
    (f) 3   **(g)** 4

3. ♥ = 14 + 4 = 18

⭐ = 8 + 2 = 10

♥ – ⭐ = 18 – 10 = 8

Exercise 5B   Subtraction (4)

1. **(a)** 7 + 10 = 17
10 + 7 = 17
17 – 10 = 7
17 – 7 = 10

(b) 6 + 9 = 15
9 + 6 = 15
15 – 9 = 6
15 – 6 = 9

(c)

3 + 11 = 14
11 + 3 = 14
14 – 11 = 3
14 – 3 = 11

(d)

8 + 12 = 20
12 + 8 = 20
20 – 12 = 8
20 – 8 = 12

2. **(a)** 7 + 8 = 15
8 + 7 = 15
15 – 7 = 8
15 – 8 = 7

(b) 11 + 6 = 17
6 + 11 = 17
17 – 11 = 6
17 – 6 = 11

(c) 9 + 10 = 19
10 + 9 = 19
19 – 10 = 9
19 – 9 = 10

(d) 12 + 6 = 18
6 + 12 = 18
18 – 12 = 6
18 – 6 = 12

Chapter Practice

1. C

2. **(a)** true   **(b)** false
(c) true   **(d)** false

3. **(a)** 14   **(b)** 6
(c) 12   **(d)** 11
(e) 8   **(f)** 11
(g) 16   **(h)** 15

4. **(a)** 10 (+) 8 = 18
8 (+) 10 = 18
18 (–) 8 = 10
18 (–) 10 = 8

(b) 6 (+) 7 = 13
7 (+) 6 = 13
13 (–) 6 = 7
13 (–) 7 = 6

5. ⬠ = 11 + 7 = 18   ⭐ = 12 − 10 = 2

(a) ⬠ − ⭐ = 18 − 2 = 16

(b) ⬠ + ⭐ = 18 + 2 = 20

6. (a) I can subtract by making 10 and 2 from 12. Next, I subtract 4 from 10.
10 − 4 = 6
Then I add 2 to 6.
6 + 2 = 8.
So 12 − 4 = 8.

(b) Way 1
Count back to subtract.

8	9	10	11	12
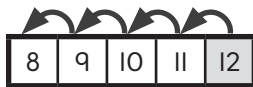
12 − 4 = 8

Way 2

12 − 4
      / \
    2   2
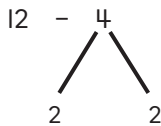
So 12 − 4 = 8.

7. Way 1
Rearrange to make 10.
2 + 5 + 8 = 2 + 8 + 5
= 10 + 5
= 15
Way 2
Use double facts to add.
2 + 5 + 8 = 7 + 8
= 7 + 7 + 1
= 14 + 1
= 15

8.

5	+	8	=	13
+		−		−
9		1		6
=		=		=
14	−	7	=	7

Chapter 6 ADDITION AND SUBTRACTION WORD PROBLEMS

Exercise 6A Part-Whole Problems (1)

1. __5__ (+) __6__ = __11__
James has __11__ erasers now.

2. __9__ (+) __3__ = __12__
Tiffany has __12__ toy cars now.

3. __4__ (+) __5__ (+) __7__ = __16__
The children make __16__ sandwiches in all.

4. __11__ (+) __4__ = __15__
Ms. Jefferson had __15__ porcelain plates at first.

Exercise 6A Part-Whole Problems (2)

1. __16__ (−) __4__ = __12__
Jenny has __12__ pencils left.

2. __11__ (−) __8__ = __3__
There are __3__ black files.

3. __19__ (−) __5__ = __14__
Alex has __14__ marbles.

4. __14__ (−) __5__ = __9__
Eva takes __9__ pies.

Exercise 6B Comparison Problems (1)

1. __12__ (+) __5__ = __17__
Helen has __17__ bracelets.

2. __8__ (+) __7__ = __15__
Jennifer has __15__ color pencils.

3. __9__ (+) __7__ = __16__
Emilia folds __16__ paper cranes.

4. No, I do not agree with Liam.
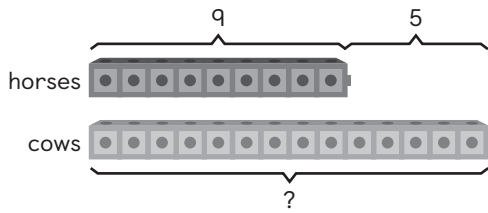
$$\underline{\quad 9 \quad} \; \left(+ \right) \; \underline{\quad 5 \quad} \; = \; \underline{\quad 14 \quad}$$

There are __14__ cows on the farm.

Exercise 6B   Comparison Problems (2)

1. $\underline{\quad 13 \quad} \; \left(- \right) \; \underline{\quad 5 \quad} \; = \; \underline{\quad 8 \quad}$

Leonard has __8__ toy airplanes.

2. $\underline{\quad 11 \quad} \; \left(- \right) \; \underline{\quad 6 \quad} \; = \; \underline{\quad 5 \quad}$

There are __5__ children at the swings.

3. $\underline{\quad 15 \quad} \; \left(- \right) \; \underline{\quad 8 \quad} \; = \; \underline{\quad 7 \quad}$

Chris reads __7__ more storybooks than Natalie.

4. $\underline{\quad 20 \quad} \; \left(- \right) \; \underline{\quad 9 \quad} \; = \; \underline{\quad 11 \quad}$

There are __11__ fewer tulips than sunflowers.

Chapter Practice

1. A

2. C

3. D

4.
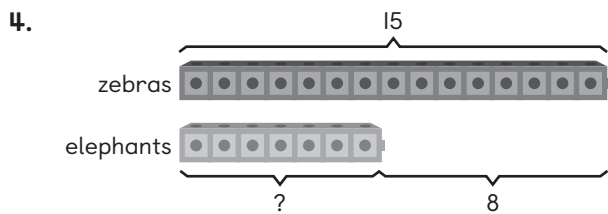
$$\underline{\quad 15 \quad} \; \left(- \right) \; \underline{\quad 8 \quad} \; = \; \underline{\quad 7 \quad}$$

There are __7__ elephants.

5.
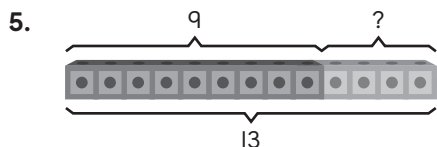
$$\underline{\quad 13 \quad} \; - \; \underline{\quad 9 \quad} \; = \; \underline{\quad 4 \quad}$$

Sarah gives Jon __4__ marbles.

6.
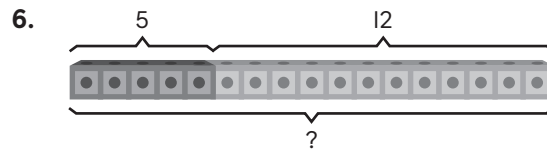
$$\underline{\quad 12 \quad} \; \left(+ \right) \; \underline{\quad 5 \quad} \; = \; \underline{\quad 17 \quad}$$

The chicken lays __17__ eggs.

7.
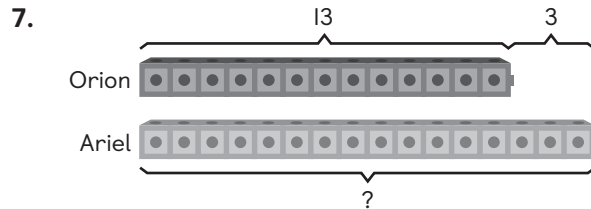
$$\underline{\quad 13 \quad} \; \left(+ \right) \; \underline{\quad 3 \quad} \; = \; \underline{\quad 16 \quad}$$

Ariel has __16__ stamps.

8.
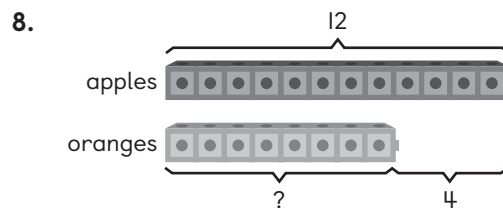
$$\underline{\quad 12 \quad} \; \left(- \right) \; \underline{\quad 4 \quad} \; = \; \underline{\quad 8 \quad}$$

Paul buys __8__ oranges.

9. No, I do not agree with Oscar.
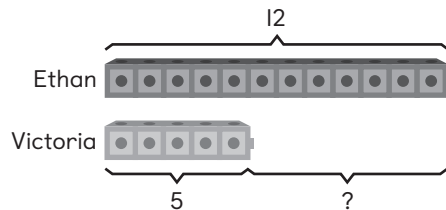
$$\underline{\quad 12 \quad} \; \left(- \right) \; \underline{\quad 5 \quad} \; = \; \underline{\quad 7 \quad}$$

Ethan has __7__ more stickers than Victoria.

10.

Number of Shirts Donated by Elijah	Number of Shirts Donated by Hannah	Number of Shirts Donated In All
9	9 − 3 = 6	9 + 6 = 15
10	10 − 3 = 7	10 + 7 = 17
11	11 − 3 = 8	11 + 8 = 19

Elijah donates __11__ shirts.

Chapter 7 LENGTH

Exercise 7A Compare Lengths

1. Accept all correct answers. Examples:
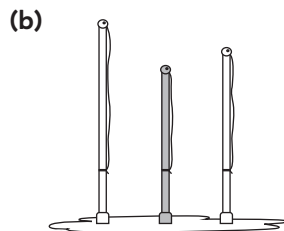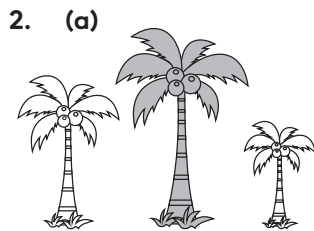
   (a)

   (b)

2. **(a)** **(b)**

3. **(a)** R

   (b) Q

   (c) $\underset{\text{shortest}}{\underline{\quad R \quad}}$, $\underline{\quad P \quad}$, $\underset{\text{longest}}{\underline{\quad Q \quad}}$

4. **(a)** C **(b)** B **(c)** B **(d)** C

   (e) $\underset{\text{longest}}{\underline{\quad B \quad}}$, $\underline{\quad D \quad}$, $\underline{\quad A \quad}$, $\underset{\text{shortest}}{\underline{\quad C \quad}}$

5. $\underset{\text{tallest}}{\underline{\quad Adam \quad}}$, $\underline{\quad Clara \quad}$, $\underline{\quad Benjamin \quad}$, $\underset{\text{shortest}}{\underline{\quad Danny \quad}}$

6. **(a)** No, there are two cases.

   Rope P ▬▬▬   Rope P ▬▬▬▬
   Rope Q ▬▬▬▬   Rope Q ▬▬▬▬
   Rope R ▬▬▬   Rope R ▬▬▬

   So I cannot tell for sure which is shortest.

   (b) Rope R is longer/shorter than Rope P.

Exercise 7B Measure Length

1. **(a)** 6 **(b)** 4 **(c)** 7

2. **(a)** 6 **(b)** 3 **(c)** 2 **(d)** 4

3. **(a)** A **(b)** 9 **(c)** 7 **(d)** B

Chapter Practice

1. C

2. comb

3. **(a)** Circle Rope C. **(b)** Cross out Rope B.

4. 13

5. **(a)** 4 **(b)** 12

6. **(a)** shorter **(b)** taller

   (c) as tall as **(d)** shortest

   (e) tallest

7. **(a)** Accept all strips that are 5 or 6 squares long.

   (b) Accept all strips that are fewer than 4 squares long.

   (c) Accept all strips that are more than 7 squares long.

   Example:
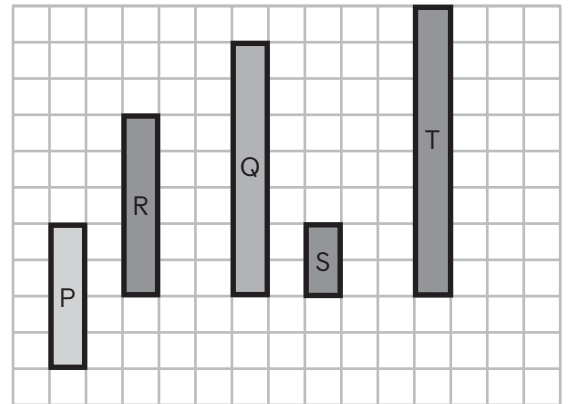
8. I do not agree with Emma.
   They are using different clips to measure the lengths.

9. X ▬▬▬▬▬▬

   Y ▬▬▬

   Z ▬▬▬▬

   $\underset{\text{longest}}{\underline{\quad X \quad}}$, $\underline{\quad Z \quad}$, $\underset{\text{shortest}}{\underline{\quad Y \quad}}$