Contents

Additional Resources:

16 Centimetres

1 1-minute Revision

Concept Review

Centimetre (cm) is a standard unit for measuring length.

Use a centimetre ruler to measure:
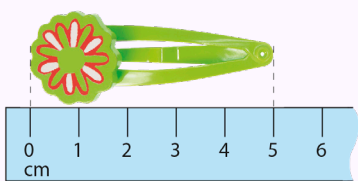
The hairclip is 5 cm long.
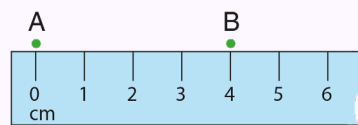
The distance between A and B is 4 cm.

Use a tape measure to measure:
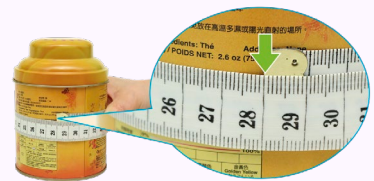
The length around the can is 28 cm long.

2 Basic Practice

Compare the lengths of the ribbons below. Answer the questions.
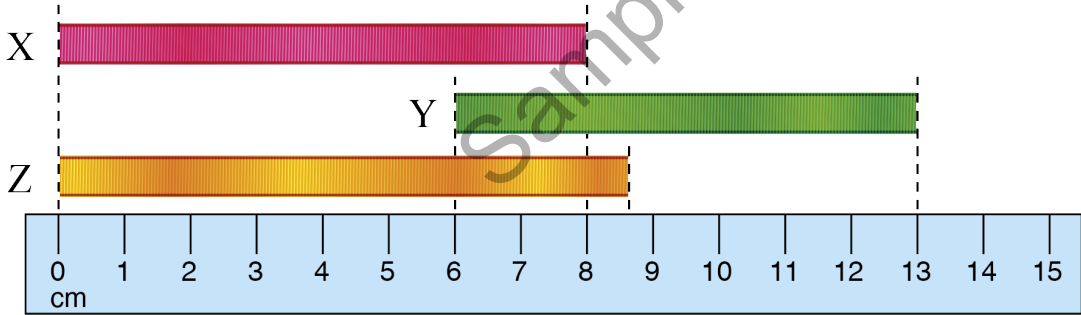
1. Ribbon X is _____ cm long.

2. Ribbon Z is a bit shorter than _____ cm.

3. Ribbon (X / Y / Z) is the shortest.
   It is _____ cm long. (Circle the answer.)

Quick Reminder
1A Length and distance
Use the concept of long and short to solve the problems.

Look at the picture and fill in the blanks.

4.

The length around the thermal bottle is _____ cm.

5.

The length around the glass bottle is _____ cm.

Use a centimetre ruler to measure the distance between the fruits. Fill in the blanks and circle the answers.

6. The distance between 🍇 and 🍌 is _____ cm.

7. The distance between 🍇 and 🍒 is _____ cm.
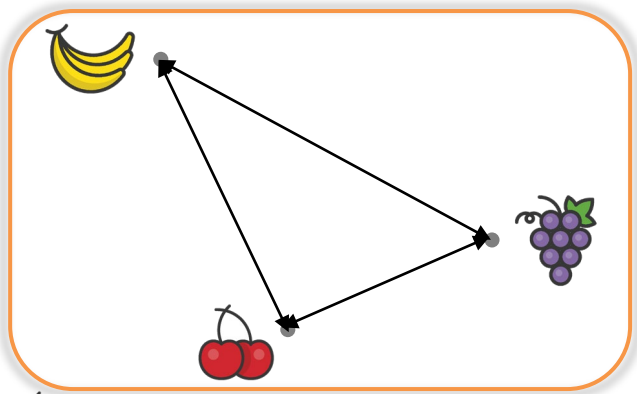
8. The distance between 🍌 and 🍒 is _____ cm (longer / shorter) than the distance between 🍌 and 🍇.

Circle the suitable tool to measure the length of the objects.

9. Use a (📏 / 🧵) to measure the length of a block.

10. Use (📏 / 🧵) to measure the length around a jar.

3 **Advanced Practice**

Circle the answer and fill in the blanks.

Public Exam Question **11.** The toy robot on the right is about (30 / 50 / 70) cm tall.
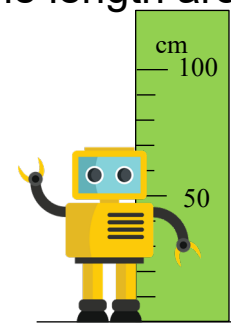
Public Exam Question **12.** Daisy has a birthday card and 3 paper bags as shown on the right. Which paper bag can the card be put in?
Answer: Paper bag _____

14 cm
20 cm

18 cm
paper bag A
18 cm
21 cm
paper bag B
15 cm

12 cm
paper bag C
22 cm
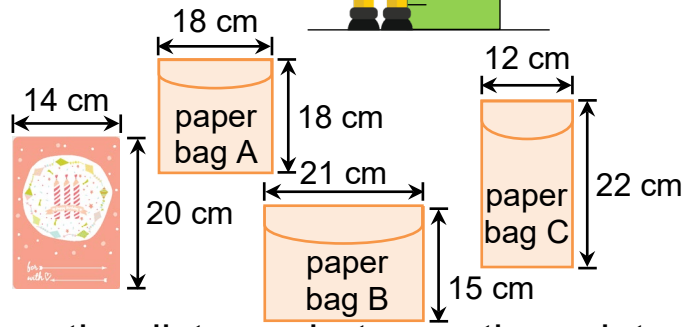
13. Use a centimetre ruler to measure the distance between the points.

Level-up Question **a.** The distance between P and S is _____ cm.

P   Q   R   S
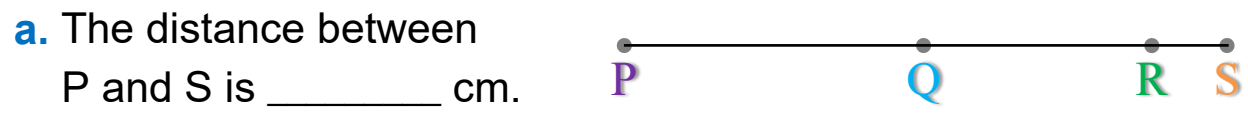
b. The distance between P and Q is the same as that between _____ and S.

Useful Tips 💡
What is the distance between P and Q?

Assessment 1

Time allowed: **30**min

Name: _____   Class: _____ ( )   Date: _____

Assessment points		Questions	Marks
Numbers within 100	Units and tens, numbers 21 to 100, counting in groups of 2, 5 and 10	1 – 7	/ 38
Addition and subtraction	Perform addition and subtraction, solving problems involving addition and subtraction	8 – 15	/ 36
Time	Tell time to the hour and half hour, measure and compare the duration of time in hours	16 – 17	/ 26
		Total marks:	/ 100

Instructions
- **Multiple choice questions:** Blacken the ◯ next to the correct answer.
- **Questions in which you are asked to 'show your working':**
  Write your mathematical expressions, answers, and statements / conclusions.
- **Other types of questions:** Answer as required in the spaces provided.

Marks

1.

T   U

a. The number shown on the abacus is _____ . It is read as _____ .   2M

b. '3' is in the tens place. It stands for _____ .   2M

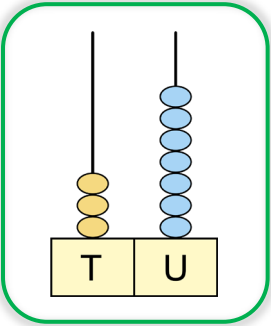**c.** '_____' is in the units place. It stands for _____ .   2M

d. 37 = [   ] + [   ]   2M

2. Based on the pattern, write the number in boxes.

a. 61, 60, 59, [   ], [   ], 56, [   ], [   ]

This is counting (on / back). (Circle the answer)   4M

b. 78, 79, [   ], [   ], [   ], 83, [   ]

This is counting (on / back). (Circle the answer)   4M

3. 51 is a (1-digit / 2-digit) number. In the number, '1' stands for _____ . (Circle the answer)   4M

4. In a 2-digit number, '2' is in the tens place and '9' is in the units place. The number is an (odd / even) number. (Circle the answer)   2M

5. Arrange 40, 43 and 34 from the smallest to the largest.

[   ] , [   ] , [   ]
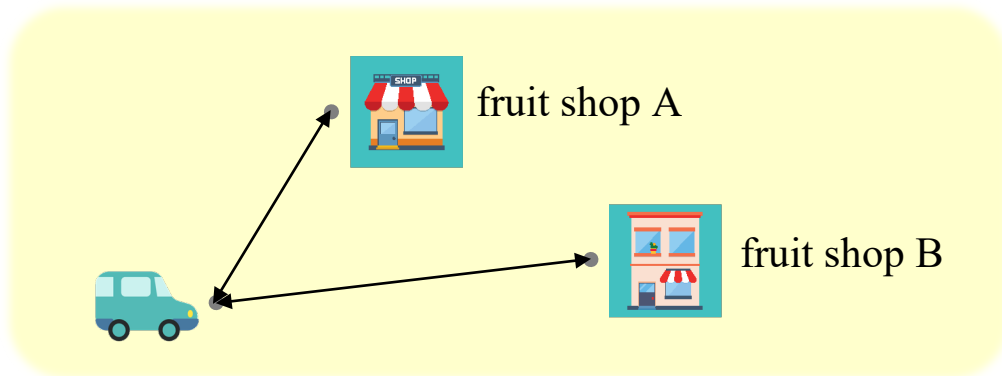(smallest)   (largest)   4M
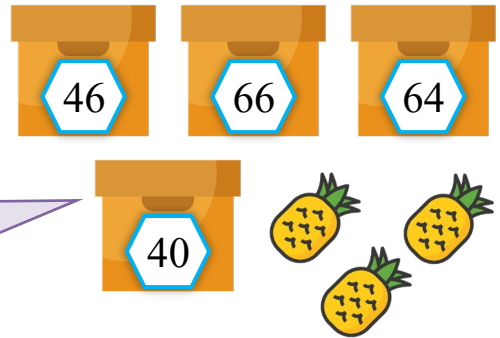
Cross-topic Exercise

Answer the questions.

1.

a. The distance between 🚗 and (fruit shop A / fruit shop B)
  is shorter. (Circle the answer)

b. A worker delivers the pinapples
  on the right to a fruit shop. He delivers
  _____ pineapples altogether.

There are 5 🍍 in each box.

46   66   64

40

c. Of the 4 numbers shown on the boxes with pineapples,
  the smallest is _____ and the largest is _____.

2. Joey had 59 dollars originally and spent 7 dollars to buy some
  paint brushes.
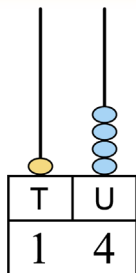 **a.** How much money has she left? (Show your working)

  _____

  _____

  She has _____ dollars left.

  b. Circle the coins Joey needed to buy the paint brushes.

Revision Notes

Unit 1: Numbers within 100 (Exercises 1-3)

1. Units and tens

'1' is in the tens place. It stands for 10.

'4' is in the units place. It stands for 4.

$14 = 10 + 4$

14 is read as fourteen.

T	U
1	4

2. Comparing 2-digit numbers

- Compare 63 and 67.

The digits in the tens place are the same, so we cannot compare which is the larger.

T	U
6	3
6	7

Then compare the digits in the units place. 7 is larger than 3. Thus, 67 is larger than 63.

3. Counting in groups of 2, 5 and 10

- Count in groups of 2: 2 ➜ 4 ➜ 6 ➜ 8 ➜ 10 …
- Count in groups of 5: 5 ➜ 10 ➜ 15 ➜ 20 ➜ 25 …
- Count in groups of 10: 10 ➜ 20 ➜ 30 ➜ 40 ➜ 50 …

Unit 2: Addition and subtraction (Exercises 4-7)

1. Addition of 2-digit numbers

horizontal form

e.g. $16 + 37 = 53$

column form

```
    1   6
+   3₁  7
---------
    5   3
```

When performing addition using the column form, first add the digits in the units place and then add the digits in the tens place. Remember to add the digit for carrying.

7. hexagon

8. A

9. C, E

10. 7

11. 1

12. 6

13-17.
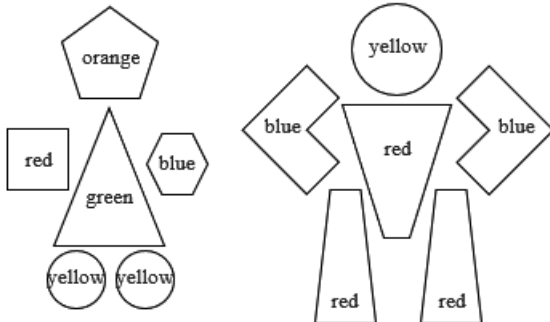
15 Making 2-D shapes

1. quadrilaterals

2. 2, 2

3. 1 triangle and 1 pentagon
  – or –
  1 pentagon and 1 triangle

4. 2 triangles and 1 quadrilateral
  – or –
 1 quadrilateral and 2 triangles

5. A
MCQ Explanation

Wrong choice	Reason
B	Forget to count 1 side.
C	Forget to count 2 sides.
D	Cannot identify what is a circle.

6. D
MCQ Explanation
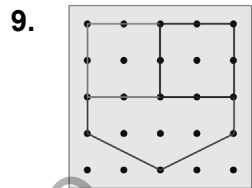
Wrong choice	Reason
A	Cannot count the number of sides on the pin-board.
B	Wrongly count 2 more sides.
C	Wrongly count 1 more side.

7.

(Accept any reasonable answers)

8.

(Accept any reasonable answers)

9.
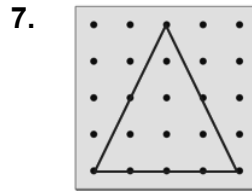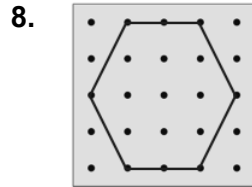
2, 1

16 Centimetres

1. 8   **2.** 9   **3.** Y, 7

4. 19   **5.** 30

6. 5

7. 3

8. 1, shorter

  [The distance between 🍌 and 🍒 is 4 cm.

  The distance between 🍌 and 🍇 is 5 cm.]

9.   **10.**

11. 70 cm

  [Between 50 cm and 100 cm, there are 5 small marks,
  that is 1 mark stands for 10 cm. The toy robot is
  higher than 50 cm, plus 2 marks, that is 50 cm and
  20 cm more. So it is 70 cm tall.]

  Common mistake: 50 cm ✗
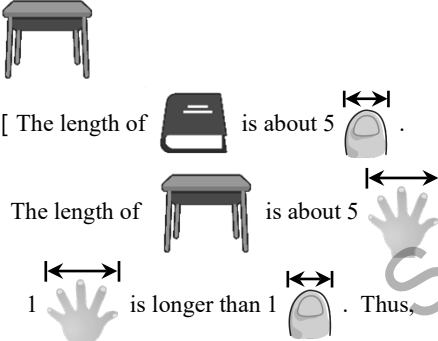 • Use the 50 cm on the ruler as the answer.

12. B

13. a. 8

  b. Q

   [The distance between P and Q is 4 cm.

   The distance between Q and S is 4 cm.]

17 Ever-ready rulers

1. 4, 44

[11 + 11 + 11 + 11 = 44]

2. 5, 80

[16 + 16 + 16 + 16 + 16 = 80]

3. 3, 90

[30 + 30 + 30 = 90]

4. **a.** 72

[18 + 18 + 18 + 18 = 72]

b. 36

[The furniture with the shortest width is the toy storage box.

18 + 18 = 36]

5. **a.**

[The length of [book] is about 5 [thumb] .

The length of [table] is about 5 [hand] .

1 [hand] is longer than 1 [thumb] . Thus,

[table] is longer.]

b. 5

[The length of 10 [thumb] equals that of 1

[hand] , that is the length of 10 [thumb] is about

10 cm. The length of 1 [thumb] is about 1 cm.

The shorter object is [book] . Its length is

about 5 [thumb] , that is about 5 cm.]

18 Sorting methods (Enrichment)

1. red: A, F, H
blue: B, D
green: C, E, G

2. odd numbers: 9, 37, 1, 45, 51, 77
even numbers: 16, 30, 2, 8, 24, 100

3. green: 9, 1, 77
orange: 16, 30, 45, 24
blue: 37, 2, 8, 51, 100
(Accept any reasonable answers)

Assessment 2

1. **a.** Tuesday, 3rd August

b. 5

[The Wednesdays in August are 2nd August, 9th August, 16th August, 23rd August and 30th August.]

2. **a.** Saturday

b. 10

3. 6, 50

4. D

[A: 5 dollars and 20 cents, B: 2 dollars and 50 cents,

C: 2 dollars and 40 cents, D: 2 dollars and 10 cents]

MCQ Explanation

Wrong choice	Reason
A	Wrongly think to find out the largest value.
B	Wrongly think if the number of coins is the fewest, the value is the smallest.
C	Wrongly think that there are only 1-dollar coins and 20-cent coins, so the group has the smallest value.

5. **a.** 2

b. 5

[Two 10-cent coins can be exchanged for one 20-cent coin.]

6. **a.** 3, 80

b. cheaper, more expensive

c.

(Accept any reasonable answers)