Reception and Year 1 Comparison and Measures, Unit 1 (R1172)

Additional teacher instructions for practice sheets
These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y1 How long are the pencils? Sheet 1
Working towards ARE

Day 1 Y1 How long are the pencils? Sheet 2
Working at ARE / Greater Depth
Working at ARE complete at least questions 1-5.
Greater Depth complete questions 1-10.

Day 2 Y1 Measuring with beads Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Greater Depth should complete the Challenge.
Children will need bead strings.

Day 3 Y1 Measuring string Sheet 1
Working towards ARE

Day 3 Y1 Measuring string Sheet 2
Working at ARE / Greater Depth

Day 4 Y1 Longer or shorter than a metre? Sheet 1
Working towards ARE / Working at ARE
Children think of objects in the classroom that might be shorter than one metre and longer than one metre. They can draw or write the objects in the appropriate box. They should have a metre stick on the table to help them visualise the length.

Day 4 Y1 Longer or shorter than a metre? Sheet 2
Greater Depth
Children think of objects in the classroom that might be shorter than one metre and longer than one metre. They can draw or write the objects in the appropriate box. They should have a metre stick on the table to help them visualise the length.
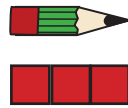
How long are the pencils?

Count how many cubes long the pencils are and write the number in the box.
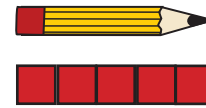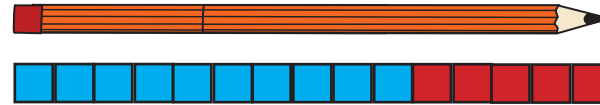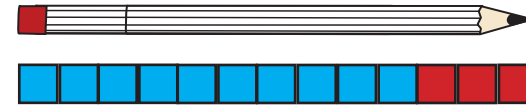
A.
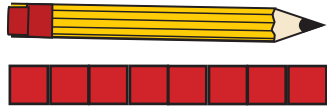
B.

C.

D.

E.

F.

G.

H.

1. Which pencil is the longest?
2. Which pencil is the shortest?
3. Which pencil measures 1 more cube than the black one?
4. Which pencil measures 1 less cube than the white one?
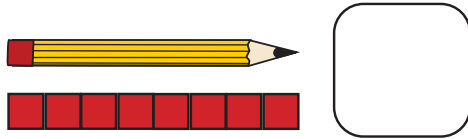
Challenge

Daisy put two pencils together. They measured 16 cubes in total. Which two pencils were they?
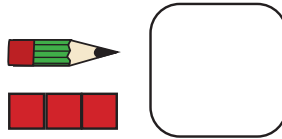
How long are the pencils?
Sheet 2

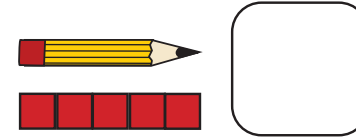Count how many cubes long the pencils are and write the number in the box.
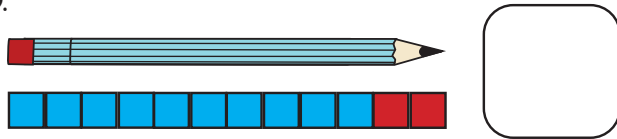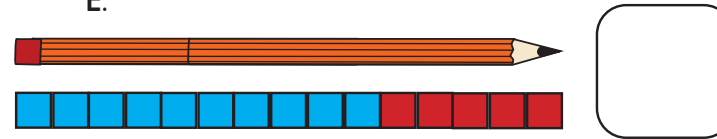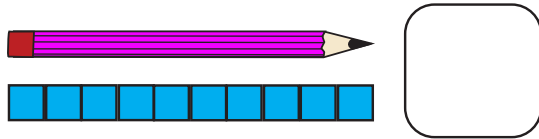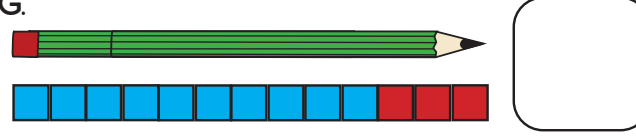
A.

B.

C.

D.

E.

F.

G.

H.
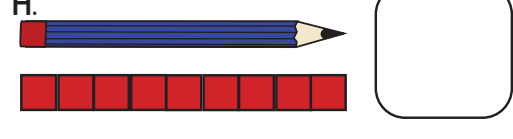
Answer these questions and write the letter of the pencil that matches the question.

1. Which pencil is the longest?
2. Which pencil is the shortest?
3. Which pencil is 15 cubes long?
4. Which pencil is longer, C or F?
5. Which is the second longest pencil?
6. Which pencil is shorter, G or D?
7. Put these pencils in order of length, smallest first: A, C, H
8. Which pencil is 5 cubes longer then F?
9. Which pencils are longer than F?
10. Which pencil is double the length of C?

Challenge

Solve this puzzle...
The letters of three pencils spell the word BAD.
How many cubes long are they altogether?

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practice_comp-meas_R1172_day1

Measuring with beads

Estimate how many beads long each object is before measuring and recording the actual length.

A.

B.
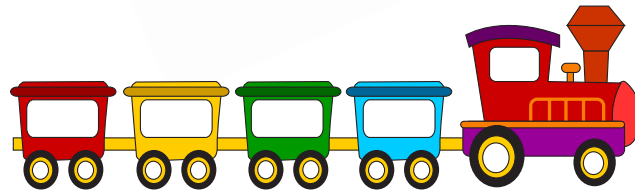
C.

D.

E.

F.

Challenge

Write the objects in order from longest to shortest.

Measuring string
Sheet 1

Use cubes to measure the length of these two strings:

A.

1	2
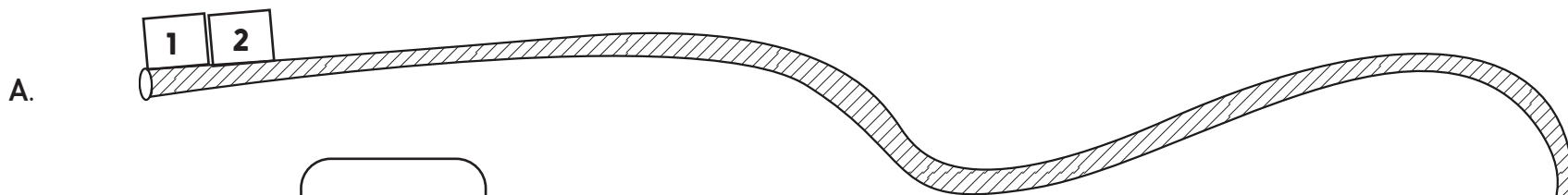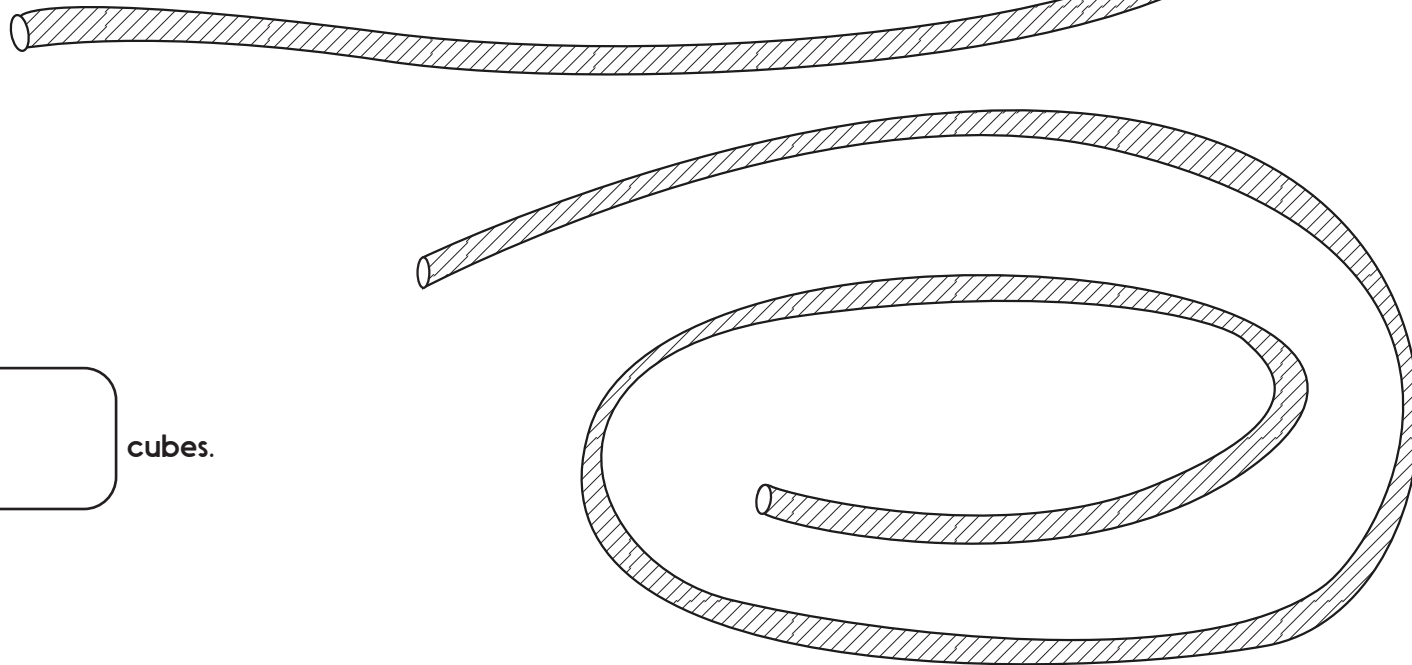
A measures ⬜ cubes.

B.

B measures ⬜ cubes.

Measuring string

1. Draw a piece of string you think will be 12 cubes long:

   Now measure it! My drawing is [ ] cubes long.
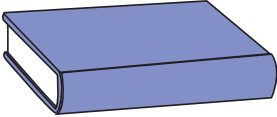
2. Estimate, then measure this piece of spaghetti:

   My estimate is [ ] cubes.

   The spaghetti measures [ ] cubes.

Longer or shorter than a metre?
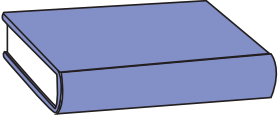
Shorter than one metre	Longer than one metre

Challenge

Find something as close to one metre as possible.

Longer or shorter than a metre?

Shorter than one metre	About one metre	Longer than one metre

Challenge

Find two objects that <u>together</u> are one metre long.

Comparison and Measures
Answers

Day 1 Y1 How long are the pencils? Sheet 1

A.   **8** cubes
B.   **3** cubes
C.   **5** cubes
D.   **12** cubes
E.   **15** cubes
F.   **10** cubes
G.   **13** cubes
H.   **9** cubes

Challenge

G + B = 16 cubes

1.   Which pencil is the longest? **E**
2.   Which pencil is the shortest? **B**
3.   Which pencil measures 1 more cube than the black one? **G**
4.   Which pencil measures 1 less cube than the white one? **D**

Day 1 Y1 How long are the pencils? Sheet 2

A.   **8** cubes
B.   **3** cubes
C.   **5** cubes
D.   **12** cubes
E.   **15** cubes
F.   **10** cubes
G.   **13** cubes
H.   **9** cubes

1.   Which pencil is the longest? **E**
2.   Which pencil is the shortest? **B**
3.   Which pencil is 15 cubes long? **E**
4.   Which pencil is longer, C or F? **F**
5.   Which is the second longest pencil? **G**
6.   Which pencil is shorter, G or D? **D**
7.   Put these pencils in order of length, smallest first: A, C, H.   **C, A, H**
8.   Which pencil is 5 cubes longer then F? **E**
9.   Which pencils are longer than F? **D, E, G**
10.   Which pencil is double the length of C? **F**

Challenge

BAD is 23 cubes.
B (3 cubes) + A (8 cubes) + D (12 cubes)

Comparison and Measures
Answers

Day 2 Y1 Measuring with beads Sheet 1

> **Challenge**
>
> Write the objects in order from longest to shortest.
> B, F, E, D, A, C

Day 3 Y1 Measuring string Sheet 1

Check children's measurements. They could draw around the cubes as a record of their measuring.

Day 3 Y1 Measuring string Sheet 2

1. Check children's drawing and measuring.
2. Are the children's estimates improving?

Day 4 Y1 Longer or shorter than a metre Sheets 1 and 2

Shorter than a metre	Longer than a metre
Classroom items could include: • exercise books • short rulers • pencils • crayons • teddy bear…	*Classroom items could include:* • tables if measured along their length • drawers measured along their length