## Reasoning and Problem Solving Step 1: Compare Lengths and Heights

## National Curriculum Objectives:

Mathematics Year 1: (1M1) Compare, describe and solve practical problems for :lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]

## Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Explain if a given statement is correct when comparing the height of 2 objects. Expected Explain if a given statement is correct when comparing the height of 3 objects. Greater Depth Explain if a given statement is correct when comparing the heights of 4 objects.

Questions 2, 5 and 8 (Problem Solving)
Developing Write correct statements to compare the length of 2 objects. Word bank provided as support.
Expected Write correct statements to compare the length of 3 objects. Word bank provided as support.
Greater Depth Write correct statements to compare the length of 3 objects. No word bank provided.

Questions 3, 6 and 9 (Problem Solving)
Developing Identify which animal is being described when comparing the height of 2 animals.
Expected Identify which animal is being described when comparing the height of 3 animals.
Greater Depth Identify which two animals are being described when comparing the height of 4 animals.

## More Year 1 Length and Height resources.

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## Compare Lengths and Heights Compare Lengths and Heights

1a. Dan is comparing items at school.


He says,


Do you agree? Explain your answer.
~
2a. Use the items below to make comparison statements.

sock

## is longer than

Find 2 possibilities.

3a. Ava is thinking of an animal.


She says,


Which animal is Ava thinking of?


1b. Lola is comparing items at school.


She says,


The paper clip is the tallest.

Do you agree? Explain your answer. )

2b. Use the items below to make comparison statements.

## is shorter than

is longer than
Find 2 possibilities.

3b. Raj is thinking of an animal.


He says,


Which animal is Raj thinking of?

## Compare Lengths and Heights Compare Lengths and Heights

4a. May is comparing items at school.

She says,


Do you agree? Explain your answer.

5a. Use the items below to make comparison statements.


Find 3 possibilities.

6a. Russ is thinking of an animal.


He says,


Which animal is Russ thinking of?

4b. Robin is comparing items at school.


He says,


The paintbrush is the tallest. The scissors are the shortest.

Do you agree? Explain your answer.

5b. Use the items below to make comparison statements.


Find 3 possibilities.

6b. Kat is thinking of an animal.


She says,


Which animal is Kat thinking of?


## Compare Lengths and Heights Compare Lengths and Heights

7a. Ryan is comparing items at school.


He says,


Do you agree? Explain your answer.

8a. Make comparison statements about the length of the items below.


Find 3 possibilities.

7b. Sasha is comparing items at school.


She says,


The book is taller than the paperclip and shorter than the scissors.

Do you agree? Explain your answer.

8b. Make comparison statements about the length of the items below.

sock
case
tie

Find 3 possibilities.

9b. Adam is thinking of 2 animals.

He says,


Which 2 animals is Adam thinking of?


## Reasoning and Problem Solving Compare Lengths and Heights

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## Developing

1a. Dan is correct because the paintbrush is taller than the glue stick.
2a. The scarf is longer than the sock; The sock is shorter than the scarf.
3a. The mouse

## Expected

4a. May is incorrect because the book is the tallest item but the glue stick is the shortest.
5a. Various answers, for example: The shoe is shorter than the scarf; The bag is shorter than the scarf; The scarf is longer than the bag.
6a. The goose

## Greater Depth

7a. Ryan is incorrect because the glue stick is shorter than both the pencil and the paintbrush.
8a. Various answers, for example: The bowl is longer than the glove; The glove is longer than the key; The key is shorter than the bowl.
9a. Various answers, for example; the chick and the hen; the mouse and the hen; the mouse and the chick.

## Developing

1b. Lola is incorrect because the book is the tallest item.
2b. The belt is longer than the watch; The watch is shorter than the belt.
3b. The pig

## Expected

4b. Robin is correct because the paintbrush is taller than the scissors/pencil case and the scissors are shorter than the paintbrush/ pencil case.
5b. Various answers, for example: The torch is shorter than the spade; The torch is shorter than the hammer; The spade is longer than the hammer.
6b. The sheep

## Greater Depth

7b. Sasha is incorrect because the book is taller than both the paperclip and the scissors.
8b. Various answers, for example: The sock is shorter than the case; The case is longer than the sock; The tie is longer than the sock.
9b. Various answers, for example; the sheep and the rabbit; the rabbit and the goose; the goose and the sheep.

