

Discussion Problems

Step 1: Compare Lengths and Heights

National Curriculum Objectives:

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

About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 1 Length and Height](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Compare Lengths and Heights

1. Use the clues to order the animals by height.

Mouse



I am taller than the hamster but shorter than the dog.

Cat



I am taller than the dog.

Hamster



I am the shortest.

Rabbit



I am taller than both the mouse and the hamster.

Dog



There are 3 animals that are shorter than me.

Find two possibilities.

DP

2. Use the cards to make to statement correct.

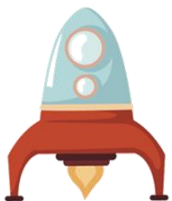
is taller than

which is shorter than

A.



B.



C.



D.



E.



Explore the different possibilities.

DP

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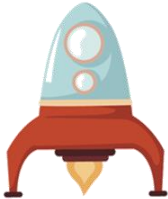
Find two possibilities.

Shortest to tallest → Hamster, Mouse, Rabbit, Dog, Cat; Tallest to shortest → Cat, Dog, Rabbit, Mouse, Hamster

DP

2. Use the cards to make to statement correct.

B.



is taller than

C.



which is shorter than

D.



A.



E.



Explore the different possibilities.

Various answers, for example: B is taller than C, which is shorter than D (shown above); C is taller than E, which is shorter than A; A is taller than C, which is shorter than B.

DP