Reasoning and Problem Solving Step 5: Number Line to 1,000

National Curriculum Objectives:

Mathematics Year 3: (3N4) <u>Identify, represent and estimate numbers using different representations</u>

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Find the midpoint of a number line when given the start and end. Draw a number line with the same midpoint when given the start/end.

Expected Find the midpoint of a number line when given the start and end. Draw a number line with the same midpoint. The midpoint is a multiple of 10.

Greater Depth Find the midpoint of a number line when given the start and end. Draw a number line with the same midpoint. The midpoint is a multiple of 5.

Questions 2, 5 and 8 (Problem Solving)

Developing Find the end of a number line when given the start and clues. Increments are in 50, 100 or 200. Start point is a multiple of 100.

Expected Find the end of a number line when given the start and clues. Increments are in multiples of 10. Start point is a multiple of 100.

Greater Depth Find the end of a number line when given the start and clues. Increments are in multiples of 10. Start point is a multiple of 10.

Questions 3, 6 and 9 (Reasoning)

Developing Decide whether two number lines show the same number. Two labelled number lines used, start and end are multiples of 50.

Expected Decide whether two number lines show the same number. One labelled and one unlabelled number line used; start and end points labelled.

Greater Depth Decide whether two number lines show the same number. One labelled and one unlabelled number line used; two middle increments labelled.

More Year 3 Place Value resources.

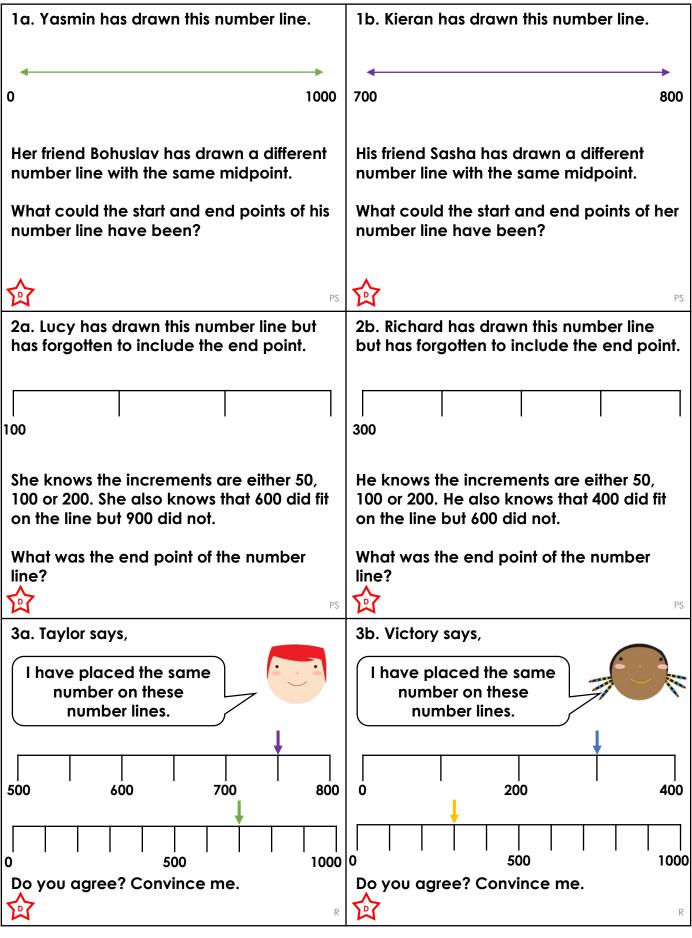
Did you like this resource? Don't forget to <u>review</u> it on our website.



classroomsecrets.co.uk

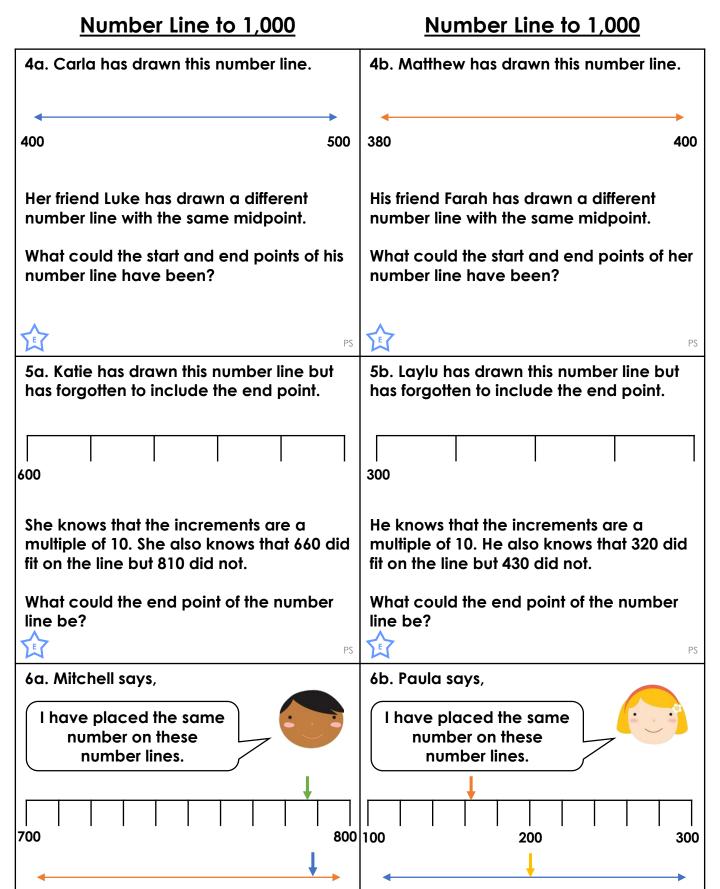
Number Line to 1,000

Number Line to 1,000





classroomsecrets.co.uk





Do you agree? Convince me.

770

classroomsecrets.co.uk

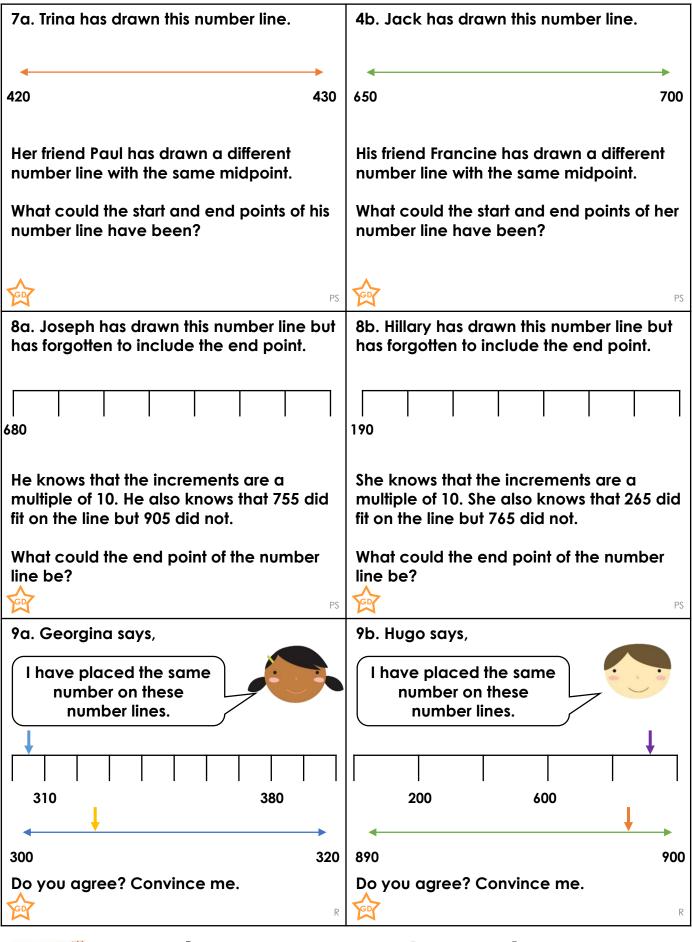
Do you agree? Convince me.

780

200

Number Line to 1,000

Number Line to 1,000





classroomsecrets.co.uk

Reasoning and Problem Solving Number Line to 1.000

Reasoning and Problem Solving Number Line to 1.000

<u>Developing</u>

1a. Possible answers: 400 and 600, 300 and 700

2a. 700 (increments of 200)

3a. Taylor is not correct because the first number line shows the number 750 and the second number line shows the number 700.

Expected

4a. Possible answers include: 440 and 460, 425 and 475

5a. 700 (increments of 20); 750 (increments of 30); 800 (increments of 40) 6a. Mitchell is not correct because the first number line shows a number less than 790 whilst the second number line shows a

number less than 780.

Greater Depth

7a. Possible answers: 400 and 450, 415 and 435

8a. 820 (increments of 20); 890

(increments of 30)

9a. Georgina is correct because both

number lines show 305.

<u>Developing</u>

1b. Possible answers: 600 and 900, 500 and 1000

2b. 500 (increments of 50)

3b. Victory is correct because both number lines show 300.

Expected

4b. Possible answers include: 370 and 410, 389 and 391

5b. 340 (increments of 10); 380 (increments of 20); 420 (increments of 30) 6b. Paula is not correct because the first number line shows a number more than 160 whilst the second number line shows 150 as it is the midpoint of 100 and 200.

Greater Depth

7b. Possible answers: 670 and 680, 660 and 690

8b. 330 (increments of 20); 400 (increments of 30); 470 (increments of 40); 540 (increments of 50); 610 (increments of 60); 680 (increments of 70), 750 (increments of 80).

9b. Hugo is not correct because the first number line shows a number above 900 while the second number line shows a number below 900.

