Reasoning and Problem Solving Step 7: Comparing Objects

National Curriculum Objectives:

Mathematics Year 3: (3N2a) Compare and order numbers up to 1000

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Given the value of three symbols, determine which set of symbols represents a greater or smaller number. Numbers up to 1,000 with symbols grouped in sets. Expected Given the value of three symbols, determine which set of symbols represents a greater or smaller number. Numbers up to 1,000 with symbols displayed randomly. Greater Depth Given the value of three symbols, determine which set of symbols represents a represents a greater or smaller number. Numbers up to 1,000 with symbols displayed randomly. Greater Depth Given the value of three symbols, determine which set of symbols represents a greater or smaller number. Numbers up to 1,000 with symbols displayed randomly represents a greater or smaller number. Numbers up to 1,000 with symbols displayed randomly and some unconventional partitioning.

Questions 2, 5 and 8 (Problem Solving)

Developing Find 3 possibilities to make a comparative statement correct. Numbers up to 1,000 shown using Base 10.

Expected Find 5 possibilities to make a comparative statement correct. Numbers up to 1,000 shown using Base 10 and place value counters.

Greater Depth Find 5 possibilities to make a comparative statement correct. Numbers up to 1,000 shown using mixed manipulatives with some unconventional partitioning.

Questions 3, 6 and 9 (Reasoning)

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Developing Explain whether a comparative statement is correct. Numbers up to 1,000 shown using Base 10.

Expected Explain whether a comparative statement is correct. Numbers up to 1,000 shown using Base 10 and place value counters.

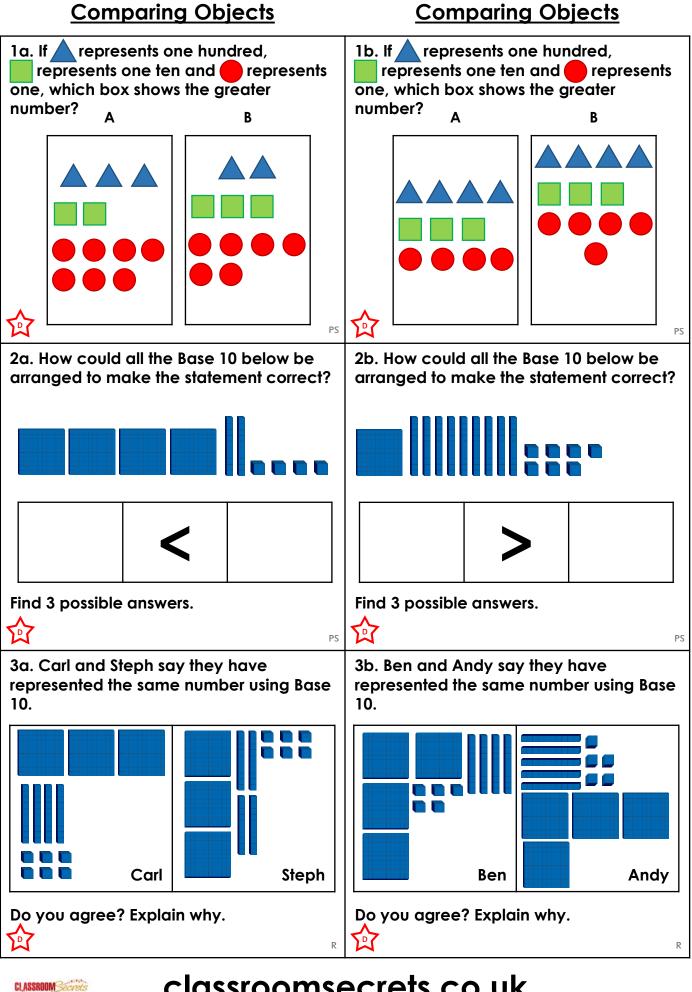
Greater Depth Explain whether a comparative statement is correct. Numbers up to 1,000 shown using mixed manipulatives with some unconventional partitioning.

More <u>Year 3 Place Value</u> resources.

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



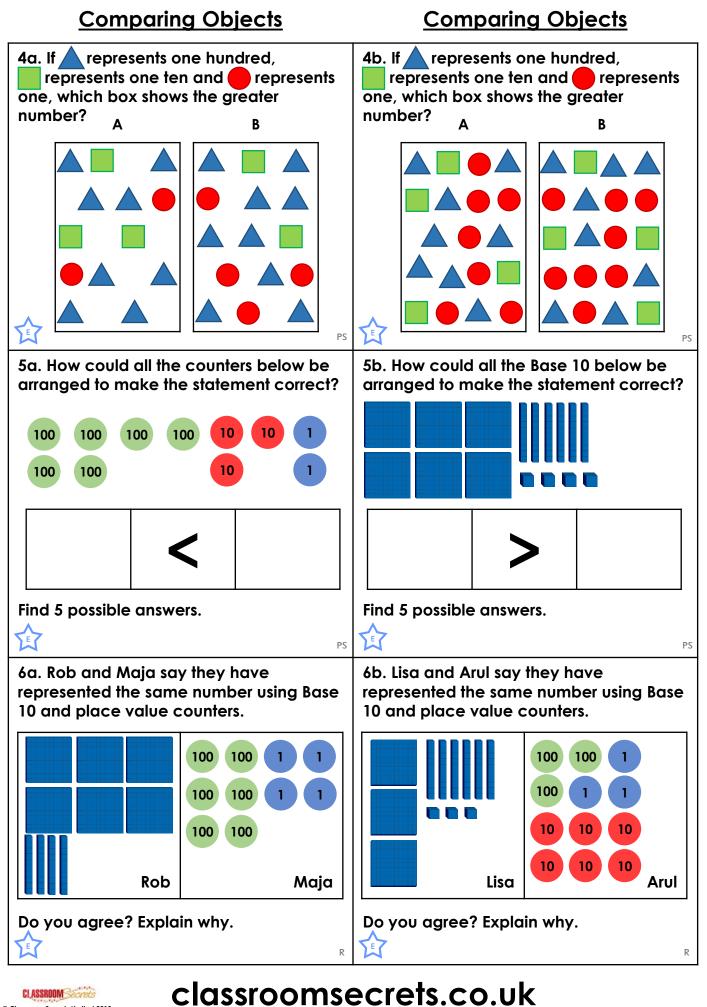
Reasoning and Problem Solving – Comparing Objects – Teaching Information



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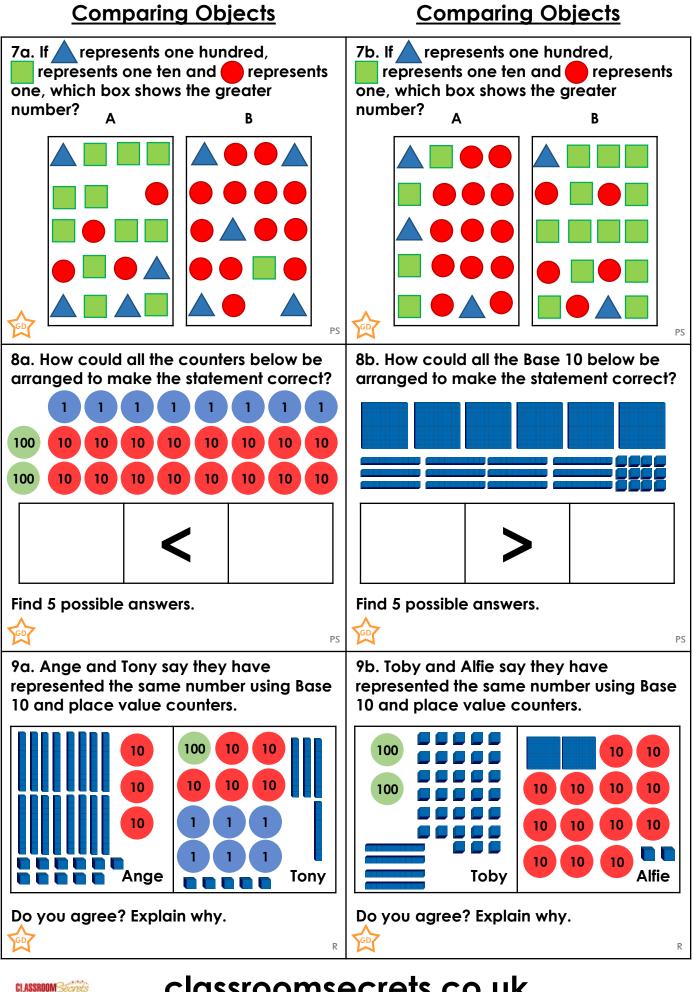
Reasoning and Problem Solving – Comparing Objects – Year 3 Developing

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Reasoning and Problem Solving – Comparing Objects – Year 3 Expected

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Reasoning and Problem Solving – Comparing Objects – Year 3 Greater Depth

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Varied Fluency Comparing Objects

Developing

1a. A
2a. Various answers, for example:
24 < 400; 200 < 224; 124 < 300
3a. Yes they both have 346.

Expected

4a. B

5a. Various answers, for example: 232 < 300; 215 < 317; 1 < 531; 32 < 500; 230 < 302

6a. No. They both have the same number of hundreds but Rob has 4 tens and Maja has 4 ones so Rob = 640 and Maja = 604.

<u>Greater Depth</u>

7a. B 8a. Various answers, for example: 1 < 367; 11 < 357; 168<200; 183<185; 68 < 300 9a. Yes they both have 201.

Varied Fluency Comparing Objects

Developing

1b. <mark>B</mark>

2b. Various answers, for example:
100 > 97; 190 > 7; 107 > 90
3b. No. They both have the same number of hundreds and ones but Ben has 4 tens and Andy has 5 tens so Ben = 445 and Andy = 455.

Expected

4b. B 5b. Various answers, for example: 600 > 64; 404 > 260; 342 > 322; 544 > 120; 351 > 113 6b. Yes they both have 363.

Greater Depth

7b. A 8b. Various answers, for example: 700 > 32; 500 > 232; 367 > 365; 616 < 116; 731 > 1 9b. No. They both have 2 hundreds but Toby has 4 tens and 33 ones and Alfie has 13 tens and 2 ones so Toby = 273 and Alfie = 332.



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