Reasoning and Problem Solving
Step 1: Count and Write Numbers to 20

National Curriculum Objectives:

Mathematics Year 1: (1N2c) Read and write numbers from 1 to 20 in numerals and words

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Count aligned pictorial representation of a number up to 10 and write in numerals and words.
Expected Count two aligned pictorial representations of numbers up to 20 and write in numerals and words.
Greater Depth Count two misaligned pictorial representations of numbers up to 30 and write in numerals and words.

Questions 2, 5 and 8 (Problem Solving)
Developing Read a simple statement and determine what number is being described by counting forwards or backwards (numbers to 10).
Expected Read a simple statement and determine what number is being described by counting forwards or backwards (numbers to 20).
Greater Depth Read a simple statement and determine what number is being described by counting forwards or backwards (numbers to 30).

Questions 3, 6 and 9 (Reasoning)
Developing Three pairs of numbers to 10 are given in numerals and words. Identify if correct or not and explain any mistake in matching.
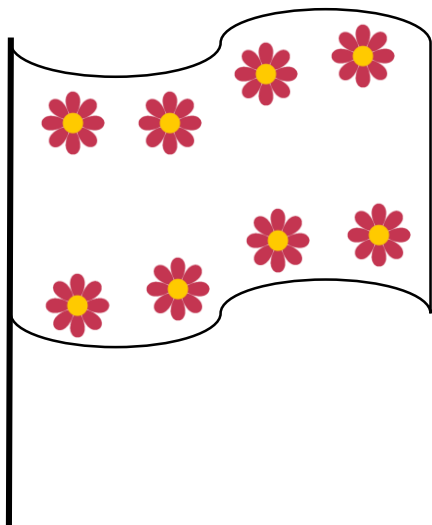Expected Four pairs of numbers to 20 are given in numerals and words. Identify if correct or not and explain any mistake in matching.
Greater Depth Four pairs of numbers to 30 are given in numerals and words. Identify if correct or not and explain any mistake in matching.

More resources which follow the same small steps as White Rose.

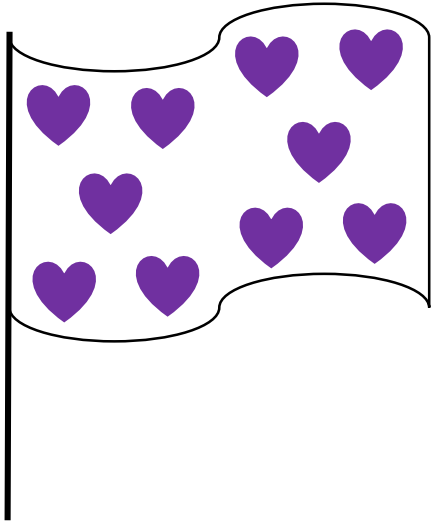Did you like this resource? Don't forget to review it on our website.

Reasoning and Problem Solving – Count and Write Numbers to 20

1a. Asher is designing a flag. How many flowers has he drawn? Write the answer as a number and a word.
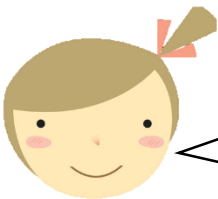
1b. Natalie is designing a flag. How many of hearts has she drawn? Write the answer as a number and a word.

2a. Paisley thinks of a number.

My number is more than 6 and less than 8.

What could Paisley's number be? Give your answer as a number and a word.

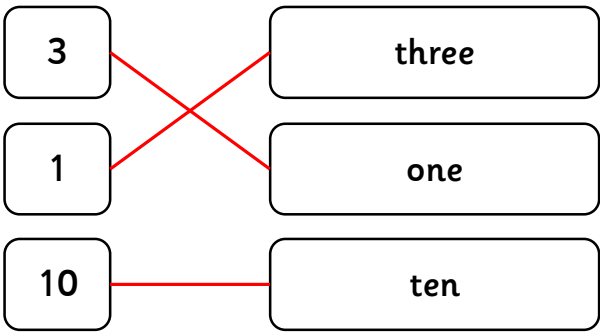**2b.** Joseph thinks of a number.

My number is less than 3 and more than 1.

What could Joseph's number be? Give your answer as a number and a word.
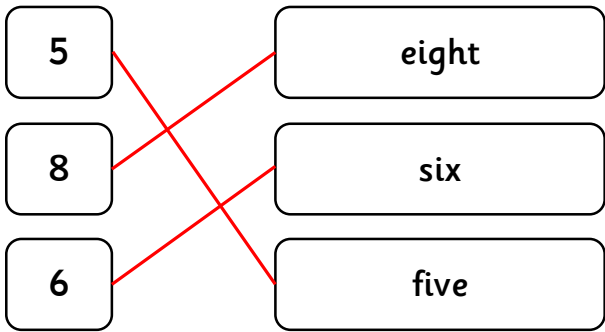
3a. Violet is matching some numbers.

3	three
1	one
10	ten

Is she correct?
Explain why.

3b. Anthony is matching some numbers.

5	eight
8	six
6	five

Is he correct?
Explain why.

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Reasoning and Problem Solving – Count and Write Numbers to 20 – Year 1 Developing

Reasoning and Problem Solving – Count and Write Numbers to 20
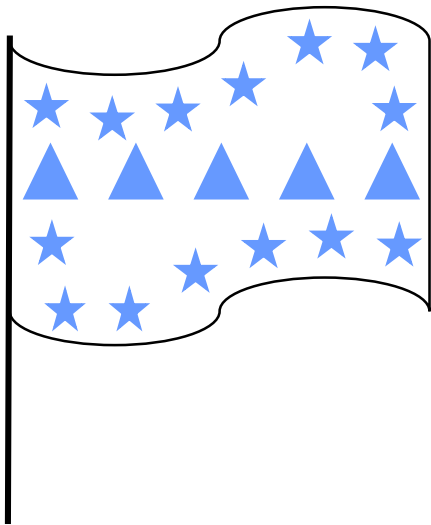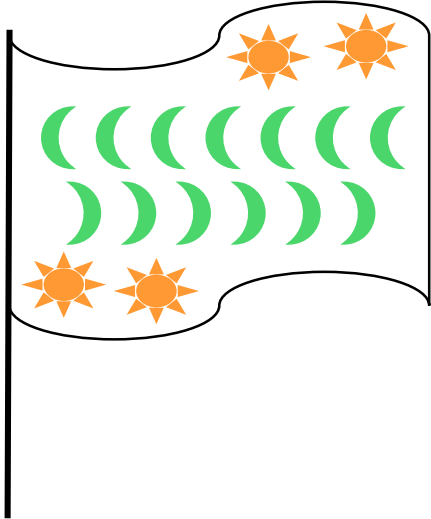
4a. Kevin is designing a flag. How many of each shape has he drawn? Write each answer in numbers and in words.

PS

4b. Mia is designing a flag. How many of each shape has she drawn? Write each answer in numbers and in words.

PS

5a. Jake thinks of a number.

My number is more than 14 and less than 17.

What could Jake's number be? Give your answer as a number and a word.
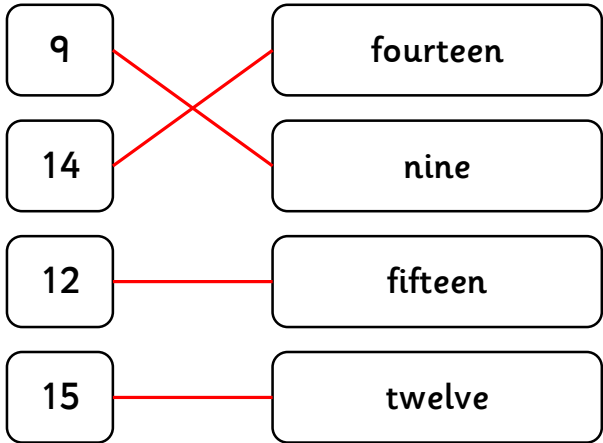
PS

5b. Ella thinks of a number.

My number is less than 15 and more than 11.

What could Ella's number be? Give your answer as a number and a word.
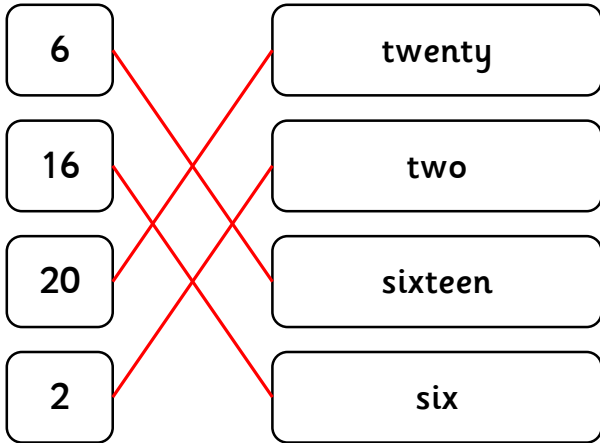
PS

6a. Mary is matching some numbers.

9	fourteen
14	nine
12	fifteen
15	twelve

Is she correct?
Explain why.

R

6b. Alex is matching some numbers.

6	twenty
16	two
20	sixteen
2	six

Is he correct?
Explain why.

R

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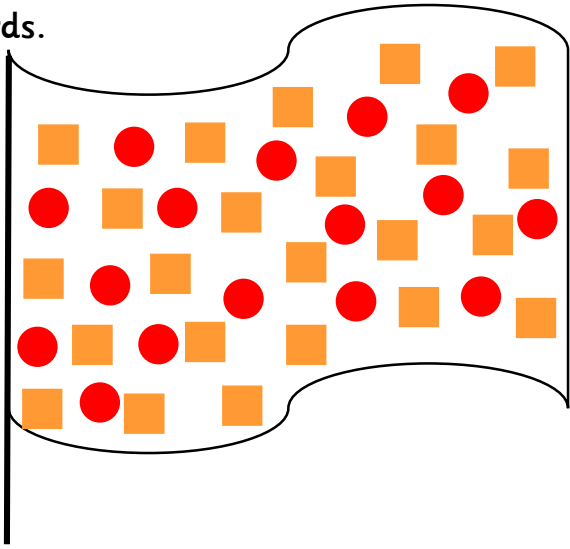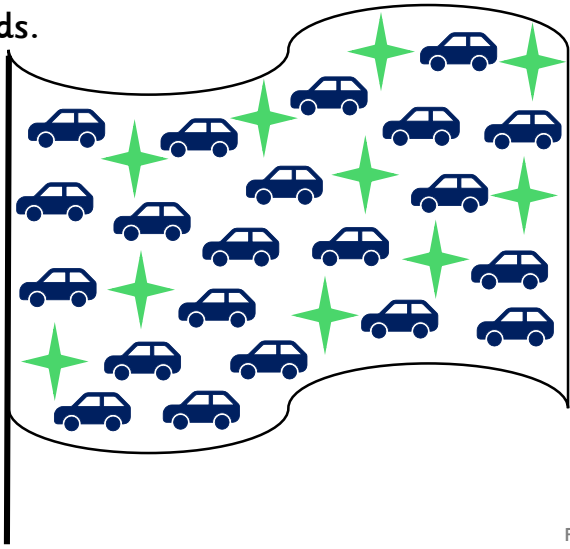
7a. Mason is designing a flag. How many of each shape has he drawn? Write each answer in numbers and in words.

7b. Elizabeth is designing a flag. How many of each shape has she drawn? Write each answer in numbers and in words.

8a. Aston thinks of a number.

My number is more than seventeen and less than 21.

What could Aston's number be? Give your answer as numbers and words.
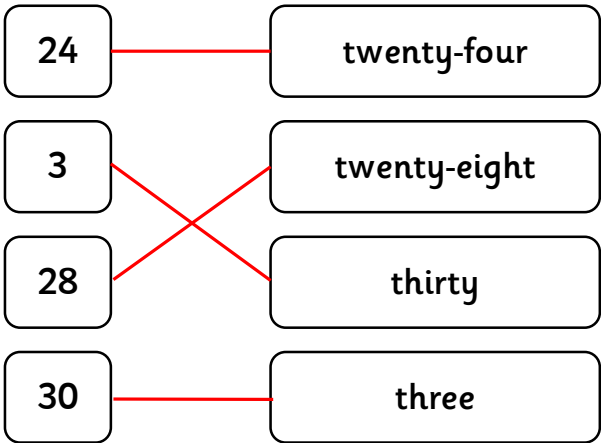
8b. Grace thinks of a number.

My number is less than 28 and more than twenty-five.

What could Grace's number be? Give your answer as numbers and words.
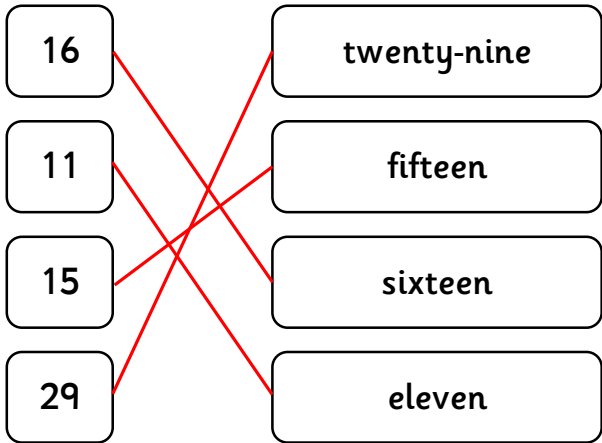
9a. Lucy is matching some numbers.

24	twenty-four
3	twenty-eight
28	thirty
30	three

Is she correct? Explain why.

9b. Ryan is matching some numbers.

16	twenty-nine
11	fifteen
15	sixteen
29	eleven

Is he correct? Explain why.

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Developing

1a. 8, eight
1b. 10, ten
2a. 7, seven
2b. 2, two
3a. Violet is incorrect because she has matched '3' to 'one' and '1' to 'three'.
3b. Anthony is correct.

Expected

4a. Stars – 14, fourteen; triangles – 5, five
4b. Moons – 13, thirteen; suns – 4, four
5a. 15, fifteen or 16, sixteen
5b. 12, twelve or 13, thirteen or 14, fourteen
6a. Mary is incorrect because she has matched '12' to 'fifteen' and '15' to 'twelve'.
6b. Alex is incorrect because he has matched '6' to 'sixteen' and '16' to 'six'.

Greater Depth

7a. Squares – 23, twenty-three; circles – 16, sixteen
7b. Cars – 21, twenty-one; stars – 10, ten
8a. 18, eighteen or 19, nineteen or 20, twenty
8b. 26, twenty-six; or 27, twenty-seven
9a. Lucy is incorrect because she has matched '3' to 'thirty' and '30' to 'three'
9b. Ryan is correct.