Varied Fluency Step 4: Prime Numbers

National Curriculum Objectives:

Mathematics Year 5: (5C5b) <u>Know and use the vocabulary of prime numbers, prime</u> <u>factors and composite (non-prime) numbers</u> Mathematics Year 5: (5C8a) <u>Solve problems involving multiplication and division including</u> using their knowledge of factors and multiples, squares and cubes

Differentiation:

Developing Questions to support identifying prime and composite numbers up to 100. Expected Questions to support identifying prime and composite numbers up to 100 and identifying prime factors in numbers.

Greater Depth Questions to support identifying prime and composite numbers up to 100. Includes identifying prime factors in numbers and recognising the sum of prime factors.

More <u>Year 5 Multiplication and Division</u> resources.

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Varied Fluency – Prime Numbers – Teaching Information



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Varied Fluency – Prime Numbers – Year 5 Developing



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Varied Fluency – Prime Numbers – Year 5 Expected



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Varied Fluency – Prime Numbers – Year 5 Greater Depth

Varied Fluency Prime Numbers

Developing

1a. 3, 17, 23 and 31
2a. 35, 12 and 38
3a. 33, 10 and 31
4a. False. The factors should be 3 and 7

Expected

5a. 4, 18 and 32 6a. 14 and 49 7a. 4, 10 and 3 8a. False. The prime factors of 4 are 2 and 2

<u>Greater Depth</u>

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9a. 15, 28 and 32 10a. 15 and 16 11a. 16 and 20, 10 and 16 12a. True

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Developing 1b. 2, 11 and 37 2b. 60, 21, 32 and 77 3b. 42, 23 and 5 4b. True

Expected

5b. 15 and 30 6b. 66 and 44 7b. 21, 14 and 2 8b. True

Greater Depth

9b. 38, 44 and 56 10b. 25 and 30 11b. 38 and 44, 25 and 15 12b. False. The total of the prime factors is 14



Varied Fluency – Prime Numbers ANSWERS