

Task A

Part 1:

Which of the digits from 1 to 9 are factors of 128?

1 2 3 4 5 6 7 8 9

Which digits could you work out mentally?

Which written calculations did you do?

Part 2:

Order from the number with the **least factors** to the number with the **most factors**:

35 36 45

Task B

Part 1:

Which of the digits from 1 to 9 are factors of 594?

1 2 3 4 5 6 7 8 9

Which digits could you work out mentally?

Which written calculations did you do?

Part 2:

Order from the number with the **least factors** to the number with the **most factors**:

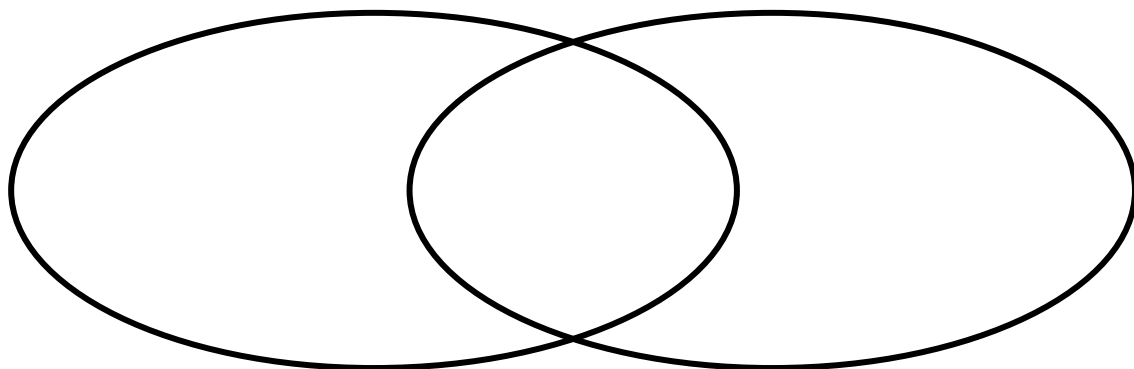
76 78 81

Extend

Put **two numbers in each section** of the Venn diagram. Each number must be more than 5 and less than 50.

multiples of 6

factors of 72



Answers, Task A:

Part 1: Factors of 128: 1 2 4 8

Part 2: 35 has 4 factors: 1 5 7 35 45 has 6 factors: 1 3 5 9 15 45

36 has 7 factors: 1 2 3 6 12 18 36

Answers, Task B:

Part 1: Factors of 594: 1 2 3 6 9

Part 2: 81 has 5 factors: 1 3 9 27 81 76 has 6 factors: 1 2 4 19 38 76

78 has 8 factors: 1 2 3 6 13 26 39 78

Extend:

Example answers: Left oval: 30, 42. Right oval: 8, 9. Middle section: 8, 12.

Outside: 10, 14.