

1) Complete the factor trees, identifying all factors of each number.



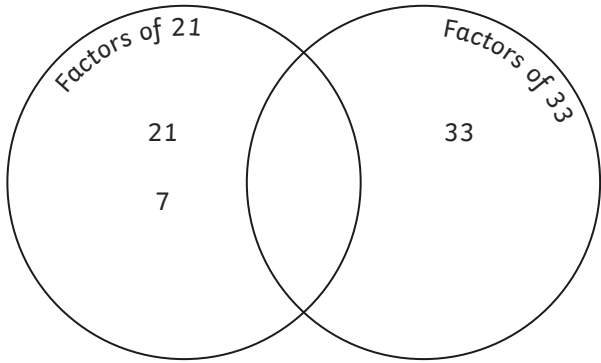
List the common factors of 36 and 24.

2)



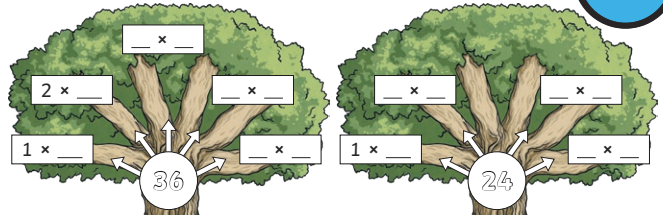
List the common factors of 20 and 30.

3) Complete the Venn diagram by adding the missing factors.



Which factors are missing?  
Which of these are common factors?

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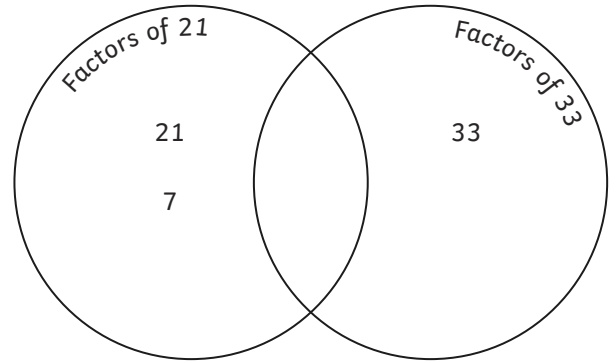
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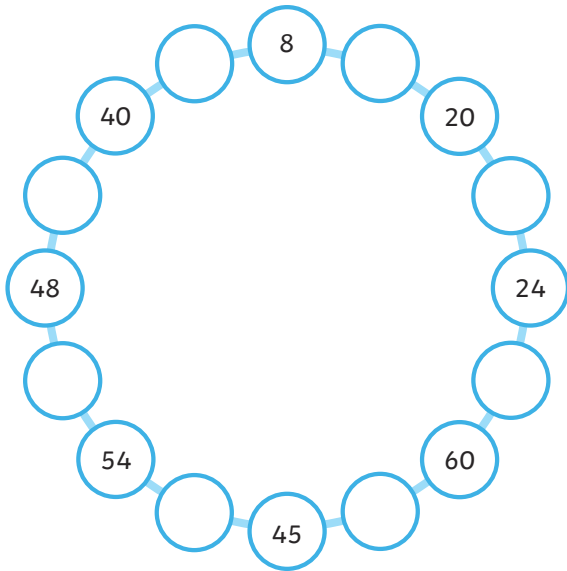
Which factors are missing?  
Which of these are common factors?

1) True or false? Explain your answers.



- a) Only even numbers have more than 1 common factor.
  - b) 10 is a common factor of 20 and 35.
  - c) 2 and 5 are common factors of all multiples of 10.
  - d) If you add a multiple of 5 to a multiple of 10, you get a multiple of 5.
- 2) The numbers in the arrow are common factors of some of the numbers in the circles. Can you place each number in a circle so that it is a common factor of the number either side?

1, 3, 15, 2, 4, 6, 9, 8



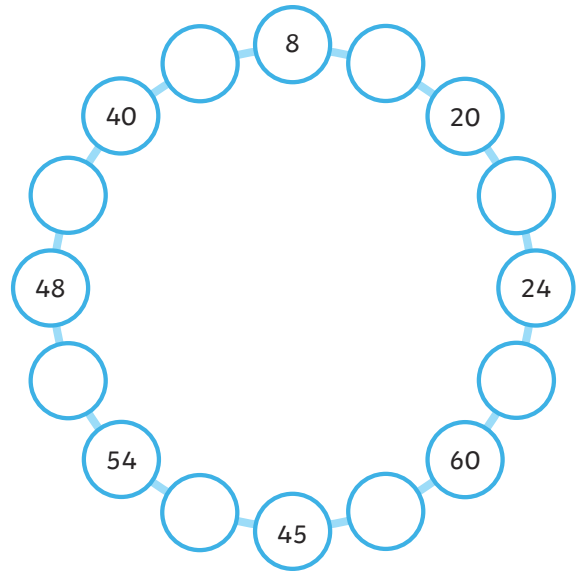
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- 1) I am thinking of 2 numbers less than 100. They have exactly 4 common factors: 1, 2, 5 and 10. What could the numbers be?



Give 4 possible pairs of numbers.

- 2) I am thinking of 2 numbers less than 100. They have exactly 3 common factors. What could the numbers be? Find 4 possible pairs of numbers, together with their 3 common factors.
- 3) Which two numbers less than 50 have the greatest number of common factors? Explore and record your findings.

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