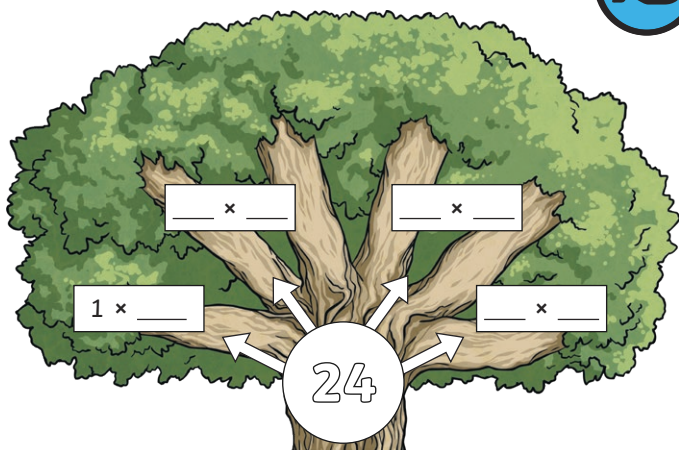
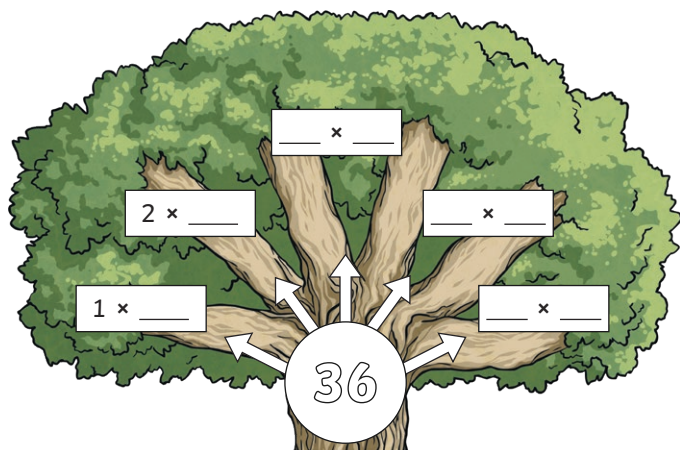




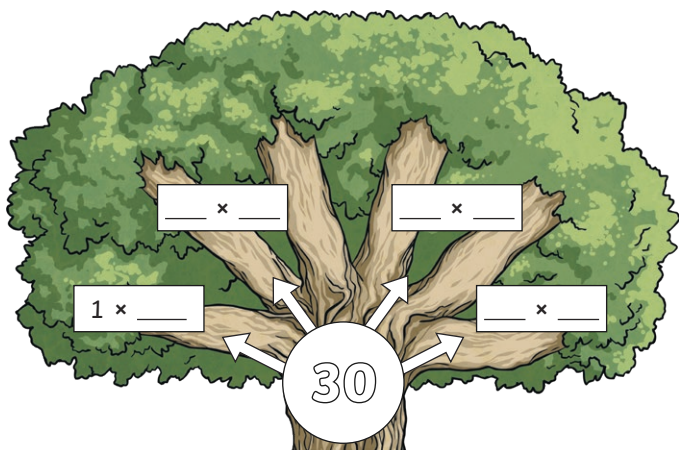
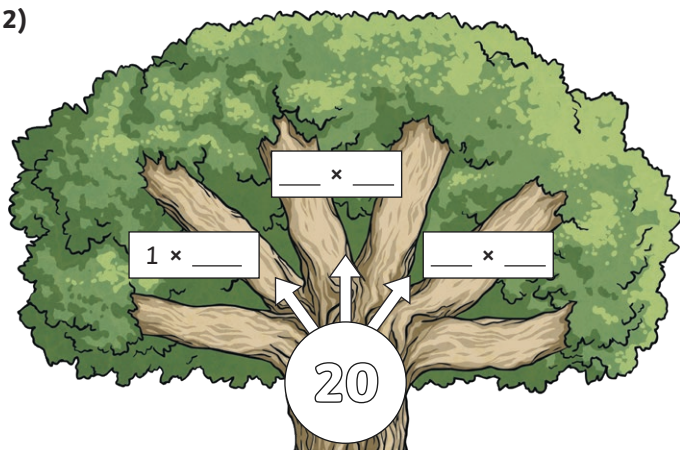
1) Complete the factor trees, identifying all factors of each number.



List the common factors of 36 and 24.

\_\_\_\_\_

2)



List the common factors of 20 and 30.

\_\_\_\_\_

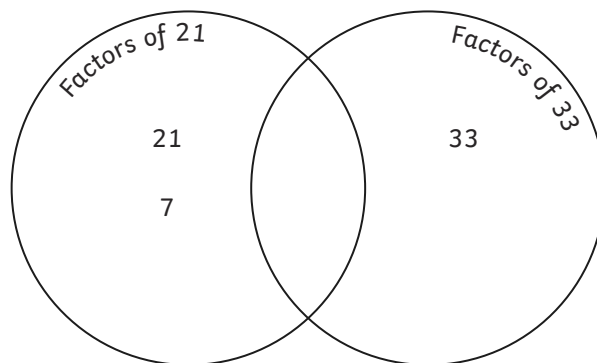
3) Complete the Venn diagram by adding the missing factors.

Which factors are missing?

\_\_\_\_\_

Which of these are common factors?

\_\_\_\_\_





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.

\_\_\_\_\_

\_\_\_\_\_

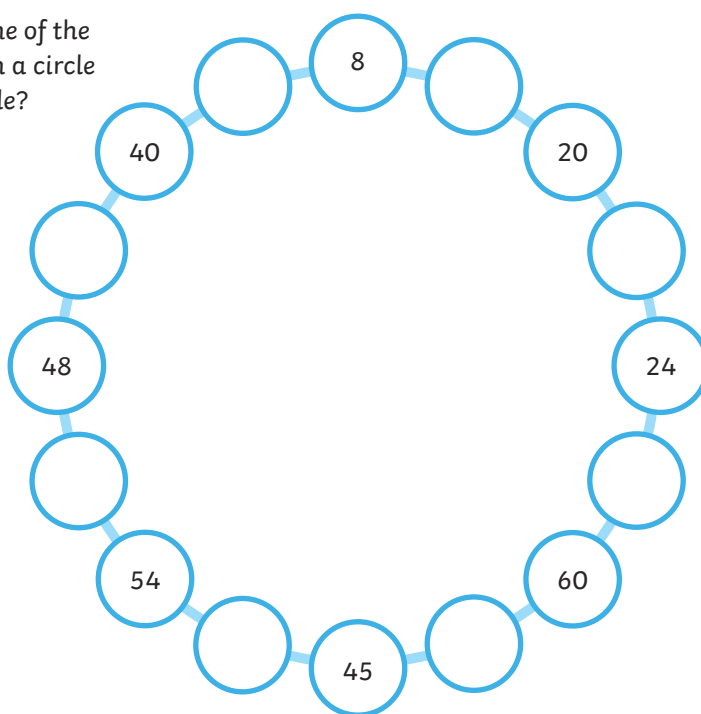
d) If you add a multiple of 5 to a multiple of 10, you get a multiple of 5.

\_\_\_\_\_

\_\_\_\_\_

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



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.

\_\_\_\_\_

\_\_\_\_\_