Common multiples

1 Shade all the multiples of 5 on a hundred square.

Circle all the multiples of 6

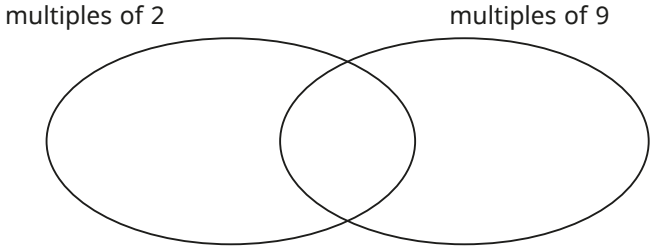
List the common multiples of 5 and 6 that are less than 100

2 **a)** List the first ten multiples of 5 and 10

b) Circle the common multiples of 5 and 10

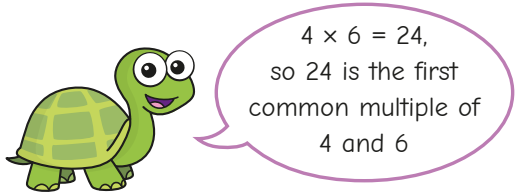
3 **a)** Write the numbers in the sorting diagram.

18 45 16 63 99 54 24 36



b) Write one more number in each section of the sorting diagram.

4 Tiny has created a method to find the first common multiple of 4 and 6



a) Do you agree with Tiny?

Explain your answer.

b) Write two numbers for which Tiny's method would work to find the first common multiple.

c) Write two numbers for which Tiny's method would not work to find the first common multiple.

5 List the first three common multiples of each pair of numbers.

a) 3 and 5 **b)** 2 and 7 **c)** 9 and 6 **d)** 10 and 4

6 Filip has found some common multiples of 3 and 4

multiples of 3: 3, 6, 9, (12), 15, 18, 21, (24), 27, 30, 33, (36), 39

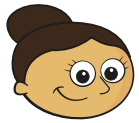
multiples of 4: 4, 8, (12), 16, 20, (24), 28, 32, (36), 40, 44

a) What do you notice about the difference between the common multiples?

b) Write the next three common multiples of 3 and 4

Does Filip's method always work?

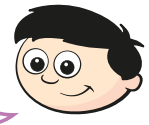
7



Dora

I know 468 is a multiple of 3, because the sum of the digits is a multiple of 3

I know 468 is a multiple of 4, because when I halve 468, the answer is even.



Dexter

Use Dora and Dexter's methods to decide which numbers are common multiples of 3 and 4

66 84 124 189 292 300

Talk about it with a partner.

8 Annie runs in the park every 3 days.

Ron runs in the park every 5 days.

They both ran on 1 January.

How many more times will they run in the park on the same day up to the end of February?

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