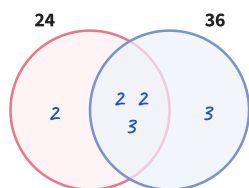


1

Find the HCF and LCM of 24 and 36.

$$24 = 2 \times 2 \times 2 \times 3$$

$$36 = 2 \times 2 \times 3 \times 3$$



$$\text{HCF} = 2 \times 2 \times 3 = 12$$

$$\text{LCM} = 2 \times 2 \times 2 \times 3 \times 3 = 72$$

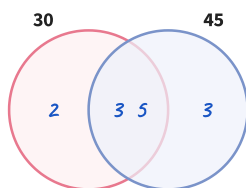
HCF 12 LCM 72

2

Find the HCF and LCM of 30 and 45.

$$30 = 2 \times 3 \times 5$$

$$45 = 3 \times 3 \times 5$$



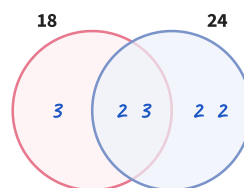
HCF 15 LCM 90

3

Find the HCF and LCM of 18 and 24.

$$18 = 2 \times 3 \times 3$$

$$24 = 2 \times 2 \times 2 \times 3$$



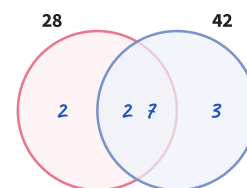
HCF 6 LCM 72

4

Find the HCF and LCM of 28 and 42.

$$28 = 2 \times 2 \times 7$$

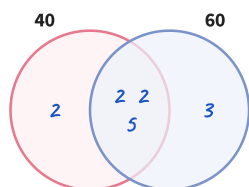
$$42 = 2 \times 3 \times 7$$



HCF 14 LCM 84

5

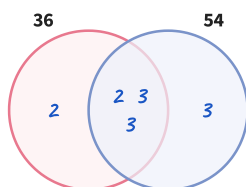
Find the HCF and LCM of 40 and 60.



HCF 20 LCM 120

6

Find the HCF and LCM of 36 and 54.



HCF 18 LCM 108

7

Buses leave every 12 minutes and trams leave every 18 minutes. They leave together at 9:00. When do they next leave together?

the LCM of 12 and 18

Answer 9:36

8

Ribbons of 24 cm and 40 cm are cut into pieces of equal length, with none left over. What is the longest each piece can be?

the HCF of 24 and 40

Answer 8 cm

HCF and LCM further practice

9

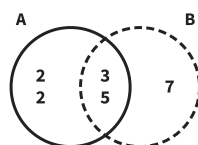
Find the HCF and LCM of 36 and 60.

HCF 12

LCM 180

10

The Venn diagram shows the prime factors of two numbers, A and B. Work out A, B and the HCF of A and B.



A = 60 B = 105 HCF = 15

11

Which pair of numbers has the bigger HCF, **24 and 40** or **27 and 45**? Show how you know.

the HCFs are 8 and 9

Answer 27 and 45

12

A florist has 48 roses and 72 tulips. She uses all of the flowers to make bunches that are exactly the same. What is the largest number of bunches she can make?

the HCF of 48 and 72

Answer 24 bunches

13

Some tiles are rectangles 15 cm long and 20 cm wide. Jo lays them all the same way round, with no gaps, to make a square. What is the side length of the smallest square she can make?

the LCM of 15 and 20

Answer 60 cm

14

Find two different numbers between 20 and 40 that have an HCF of 8

both must be in the 8 times table

Answer 24 and 32

15

Nia waters her tomato plants every 4 days. She feeds them every 6 days. She waters and feeds them on 1 June. What is the next date when she waters and feeds them?

the LCM of 4 and 6 is 12, 1 + 12

Answer 13 June

16

Ali says the LCM of 6 and 8 is 48 because $6 \times 8 = 48$. Is Ali right? Explain.

24 is in both times tables

Answer No, the LCM is 24