

HCF AND LCM

12	28	100
40		64
35	6	18
		38

From the box above,

choose two numbers that:

(a) have a common factor of 10

..... and

(b) have a common multiple of 24

..... and

(c) have a common factor of 7

..... and

(d) have a common multiple of 200

..... and

Write down two numbers that have a highest common factor of 10

..... And

Find the HCF of 42 , 56 , 70

.....

A red light flashes every 6 seconds. A yellow light flashes every 4 seconds. They both flash at the same time. After how many seconds will they next both flash at the same time?

..... seconds

Tilly the dog barks every 9 seconds. Billy the dog barks every 12 seconds. They both bark at the same time. After how many seconds will they next bark at the same time?

..... seconds

Black pens are sold in packets of 10 Red pens are sold in packets of 4 Green pens are sold in packets of 3 Minah wants to buy the same number of black pens, red pens and green pens. Work out the smallest number of each packet she should buy.

Number of packets of black pen

Number of packets of red pens

Mr Jones repaints his fence every 6 years. Mr Jones repaints his front door every 9 years. He repainted both the fence and front door in 2025.

When is the next year that he repaint both the fence and front door?

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A blue light flashes every 8 minutes while a pink light flashes every 54 minutes. Both lights flash together at 2pm. When is the next time that both lights will flash together again?

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Mary is organising a charity hot dog sale. There are 18 bread rolls in each packet. There are 15 hot dogs in each packet. Mary buys exactly the same number of bread rolls as hot dogs.

What is the smallest number of each packet that Mary can buy?

.....

Trains leave Bristol

to Cardiff every 15 minutes

to London every 21 minutes

A train to Cardiff and a train to London both leave Bristol at 11am. At what time will a train to Cardiff and a train to London next leave Bristol at the same time?

.....

Fred says that 20 and 21 have a highest common factor of 0

Explain why Fred is incorrect ?

Alannah has two lengths of ribbon.

One length of ribbon is 36cm long and the other length is 45cm long.

Alannah wants to cut lengths of ribbon into shorter lengths that are of equal length.

Alannah does not want any ribbon left over.

What is the longest possible length for each of the shorter lengths of ribbon?

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Olivia thinks of two numbers.

The lowest common multiple (LCM) of the two numbers is 36.

The highest common factor (HCF) of the two numbers is 3.

Both numbers are less than 15.

Write down two possible numbers that Olivia could be thinking of

..... And