

Novak has a tennis lesson every 3 days starting on Monday 13th April. Write down the date of the next Monday when he has a lesson.

- ☐ May 4th
- ☐ May 5th
- ☐ May 2nd
- ☐ May 6th

I think of two different numbers between 100 and 200 inclusive. The highest common factor of my numbers is the same as the lowest common multiple of 8 and 10. What two numbers could I have thought of?

- ☐ 120,160
- ☐ 120,200
- ☐ 160,200
- ☐ All of the above

Arun gets his hair cut every 2 weeks. Yahya gets his hair cut every 10 days. They both got their hair cut on the same day. How long until this happens again?

- ☐ 70 days
- ☐ 60 days
- ☐ 50 days
- ☐ 80 days

What is the largest number that will divide into both 12 and 18

- ☐ 6
- ☐ 36
- ☐ 30
- ☐ 12

Find the smallest number into which 12 and 18 will both divide.

- ☐ 36
- ☐ 12
- ☐ 18
- ☐ 72

The sum of three consecutive whole numbers is 60. What is the largest of the three numbers?

- ☐ 60
- ☐ 21
- ☐ 22
- ☐ 20

What is the smallest positive whole number that divides exactly by 1,2,3,4 and 5

- ☐ 50
- ☐ 60
- ☐ 70
- ☐ 40

What is the smallest number that 3, 4 and 10 all go into?

- ☐ 60
- ☐ 40
- ☐ 50
- ☐ 70

Juno has some fish, a cat and a dog to look after, the fish eat once every 24 hours, the cat eats once every 8 hours and the dog eats once every 16 hours. If they are alleating at the same time Monday at 8am, how many times after this will they all beeating together by Friday 9am?

- ☐ 2 times
- ☐ 3 times
- ☐ 1 time
- ☐ 4 times

Calculate the Highest Common Factor of 120 and 72

- ☐ 24
- ☐ 32
- ☐ 18
- ☐ 20

Calculate Lowest Common Multiple of 120 and 72.

- ☐ 120
- ☐ 360
- ☐ 200
- ☐ 480

Mr Sehota is cycling around a track at a constant speed. He completes 5 laps every 4 minutes. How long will it take him to complete 8 laps? Give your answer in minutes and seconds.

- ☐ 6 min 24 sec
- ☐ 6 min 40 sec
- ☐ 2 min 40 sec
- ☐ 2 min 24 sec

Mr Aldham is also cycling around the track at a constant speed. He completes 5 laps every 6 minutes. How long is it between the first time that Mr Sehota overtakes Mr Aldham and the second time that Mr Sehota overtakes Mr Aldham?

- ☐ 2 min 20 sec
- ☐ 2 min 24 sec
- ☐ 2 min 18 sec
- ☐ 2 min 27 sec

Jacqueline and Sophia stand facing one another. At exactly the same moment both girls start to turn steadily on the spot. It takes Jacqueline 3 seconds to make one full turn, whilst Sophia takes 4 seconds to complete one full turn. How many times will Jacqueline have turned when the girls are next facing each other?

- ☐ 4
- ☐ 5
- ☐ 3
- ☐ 6

At Frantic Junction, trains arrive at regular intervals on three different lines. On the line from Aytown, trains arrive every 15 minutes. On the line from Beeville, they arrive every 12 minutes and from Ceeford they arrive every 8 minutes. At 10.00am a train from each town arrives at Frantic Junction. What is the next time that three trains will arrive together.

- ☐ 12PM
- ☐ 11AM
- ☐ 1PM
- ☐ 12.30PM

A red light flashes four times a minute and a green light flashes six times a minute. If both lights start flashing at the same instant, how many times do they flash at the same instant in one hour including the first and the last time?

- ☐ 120
- ☐ 122
- ☐ 119
- ☐ 121

What is the largest number less than 100 which is a multiple of 2, and of 3, and also of 5?

- ☐ 80
- ☐ 70
- ☐ 90
- ☐ 60

Three bus services stop at my bus stop. Service A departs every 3 minutes, Service B every 5 minutes and Service C every 8 minutes. If all three services leave my stop at 10.00 a.m., at what time will

they next leave my stop together? (Assume that all three services always run on time).

- ☐ 12:00 PM
- ☐ 1PM
- ☐ 2PM
- ☐ 11AM

Whar is the smallest number that 2,3,6,10 will all go into exactly?

- ☐ 30
- ☐ 25
- ☐ 20
- ☐ 15

Which number between 40 and 50 is a multiple of both 4 and 6

- ☐ 36
- ☐ 48
- ☐ 40
- ☐ 24

Which number between 60 and 80 is a multiple of both 3 and 8?

- ☐ 72
- ☐ 36
- ☐ 60
- ☐ 48

Write down the number between 41 and 51 which isdivisible by both 3 and 4.

- ☐ 48
- ☐ 36
- ☐ 60
- ☐ 12

Which number between 50 and 75 is a multiple of both 3 and 7?

- ☐ 84
- ☐ 42
- ☐ 63
- ☐ 36

Atlanta never tells the truth, she says

- my number is greater than 100
- my number is not a multiple of 10
- my number does not divide exactly by 3
- my number has a remainder when it is divided by 4.

What is Atlanta's number

- ☐ 87
- ☐ 60
- ☐ 48
- ☐ 36

Which number between 60 and 70 is divisible by both 7 and 9?

- ☐ 60
- ☐ 65
- ☐ 70
- ☐ 63

Find the smallest number which leaves a remainder of 1 when divided by 5 or 6 or 7.

- ☐ 211
- ☐ 210
- ☐ 200
- ☐ 201

What number between 30 and 40 is divisible by both 3 and 4?

- ☐ 30
- ☐ 36
- ☐ 24
- ☐ 48

Which number between 140 and 170 can be divided exactly by both 8 and 9?

- ☐ 72
- ☐ 216
- ☐ 144
- ☐ 140

Write down all the answers below

Write down all the factors of 36

What is the highest common factor of 36 and 18

What is the lowest common multiple of 12 and 15

Write down all the prime numbers between 50 and 60.

Four bells ring at intervals of 2, 8, 7 and 11 seconds. if they are all rung at the same time, how many seconds will pass before they all ring at the same time again?

- ☐ 616 sec
- ☐ 626 sec
- ☐ 716 sec
- ☐ 516 sec

When a rope is cut equally into 8 pieces it is discovered that each piece is a whole number of centimetres long. The same thing happens if this rope is cut into 6 pieces. What is the shortest length that this rope could be?

- ☐ 18
- ☐ 20
- ☐ 24

☐ 27

Florence eats spaghetti every other day. She eats apple pie every three days. Today is Tuesday. Yesterday, which was Monday, she ate both spaghetti and apple pie. How many times during the next 60 days does she eat both spaghetti and apple pie?

☐ 10

☐ 60

☐ 12

☐ 68

At a railway station there are two platforms. At one platform, trains leave every 24 minutes and at the other every 30 minutes. If trains leave both platforms at 9 a.m., what time is it when trains next leave both platforms at the same time

☐ 11AM

☐ 12 PM

☐ 13:35

☐ 12:35

A train takes 3 hours 40 minutes to travel from York to London. It arrives at 18:00 having been delayed by 45 minutes. At what time did it leave York?

☐ 11AM

☐ 12 PM

☐ 13:35

☐ 12:35

What is the smallest number which can be divided by 3, 4, 5 and 6 exactly?

☐ 60

☐ 40

☐ 75

☐ 65

Find the highest common factor (HCF) of 66 and 30.

- ☐ 24
- ☐ 6
- ☐ 12
- ☐ 18

At a busy railway station trains leave from platform 5 every 6 minutes and from platform 8 every 10 minutes. Trains leave from both platforms at 15:57. When do trains next leave both platforms at the same time?

- ☐ 16:27
- ☐ 15:57
- ☐ 17:27
- ☐ 16:57

Granny takes one a day of each of two types of tablet. One type of tablet is in packets of 25 and the other type is in packets of 20. She starts new packets of both on 1st of March. On what date will she next start new packets of both?

- ☐ 1st June
- ☐ 9th June
- ☐ 10th June
- ☐ 8th June

How many whole numbers less than 100 cannot be divided exactly by 4 or by 5?

- ☐ 25
- ☐ 60
- ☐ 20
- ☐ 30

Find the Lowest Common Multiple (LCM) of 24 and 36

- ☐ 72
- ☐ 48

☐ 65

☐ 12

Write 90 as a product of prime factors.

☐ $2 \times 3 \times 5$

☐ $2 \times 3 \times 2$

☐ $2 \times 3 \times 4$

☐ $5 \times 4 \times 5$

What is the largest of the common factors of 24 and 36?

☐ 72

☐ 12

☐ 48

☐ 36

120 can be written as $2^a \times 3^b \times 5^c$ Work out values for a, b and c.

☐ $a=3, b=1, c=1$

☐ $a=4, b=3, c=2$

☐ $a=5, b=3, c=4$

☐ $a=3, b=2, c=1$

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