11.11.24

MPI: Finding multiples

Circle all the multiples of 3

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Circle all the multiples of 4

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

11.11.24

MPI: Finding multiples

Complete the number tracks.

a)	0	6				30				54	
b)		8	16			40					

Write 10 multiples of 2. Include at least one 3 digit number and one 4 digit number.

Imogen says all multiples of 6 are multiples of 3. Is she correct?

_____

Which number is the odd one out?

Tick your answer.

8	**56**	**6**	**16**

Multiples of 5 always have a 5 in the number.

Is the statement true or false? _____

Explain your answer.

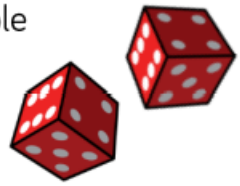
_____

_____

08.01.24—CHALLENGE

MPI: Finding multiples

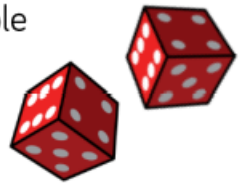
Roll 2 dice (1-6), and multiply the numbers the you roll.
List all the numbers that this number is a multiple of.
Repeat the dice roll.
Use a table to show your results.
Multiply the numbers you roll to complete the table.



11.11.24—CHALLENGE

MPI: Finding multiples

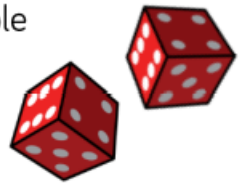
Roll 2 dice (1-6), and multiply the numbers the you roll.
List all the numbers that this number is a multiple of.
Repeat the dice roll.
Use a table to show your results.
Multiply the numbers you roll to complete the table.



11.11.24—CHALLENGE

MPI: Finding multiples

Roll 2 dice (1-6), and multiply the numbers the you roll.
List all the numbers that this number is a multiple of.
Repeat the dice roll.
Use a table to show your results.
Multiply the numbers you roll to complete the table.



12.11.2024

MPI: Finding common multiples

Shade all the multiples of 5 in the hundred square.

Circle all the multiples of 6

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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

_____

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 ☐ ☐ ☐

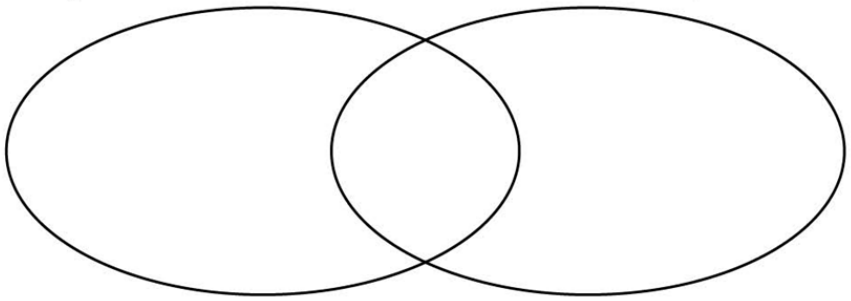
12.11.2024

MPI: Finding common multiples

a) Write the numbers in the sorting diagram.

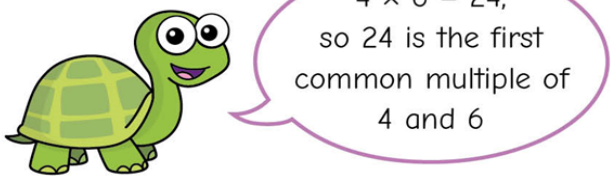
18 45 16 63 99 54 24 36

multiples of 2 multiples of 9



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

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



a) Do you agree with Tiny? _____

Explain your answer.

_____

_____

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

Write the next three common multiples of 3 and 4

12.11.24—CHALLENGE

MPI: Finding common multiples

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?

12.11.24—CHALLENGE

MPI: Finding common multiples

Annie runs in the park every 3 days.

Ron runs in the park every 5 days.

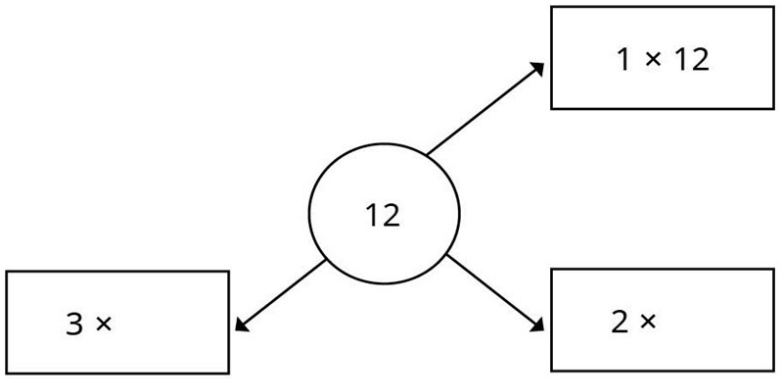
They both ran on 1 January.

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

13.11.24

MPI: Finding factors

Complete the diagram to show the pairs of numbers that multiply to make 12



List all the factors of 12

_____

Circle the factors of 30

5 15 25 3 30 4 2 12 60 0

Circle all the factors of 90

8	7	2	1	88	3
82	13	36	53	24	57
10	36	8	75	90	91
22	25	4	11	24	65
38	39	62	9	30	33

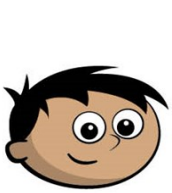
13.11.24

MPI: Finding factors

Which number has more factors? Tick your answer.

64	48

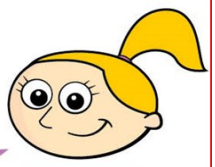
Amir and Eva are describing numbers using factors.



The number 11 does not have any factors.

Amir

My number lies between 20 and 25. It only has two factors.



Eva

a) Is Amir correct? _____

Explain your answer.

_____

_____

b) What number is Eva thinking of? ☐

True or False?

The bigger the number, the more factors it has.

Give an example to prove your point.

13.11.24—CHALLENGE

MPI: Finding factors

How do you know that the statements are true?

a) 5 is a factor of 195, but not a factor of 196

b) 3 is a factor of 177, but not a factor of 178

c) 20 is a factor of 180, but not a factor of 190

13.11.24—CHALLENGE

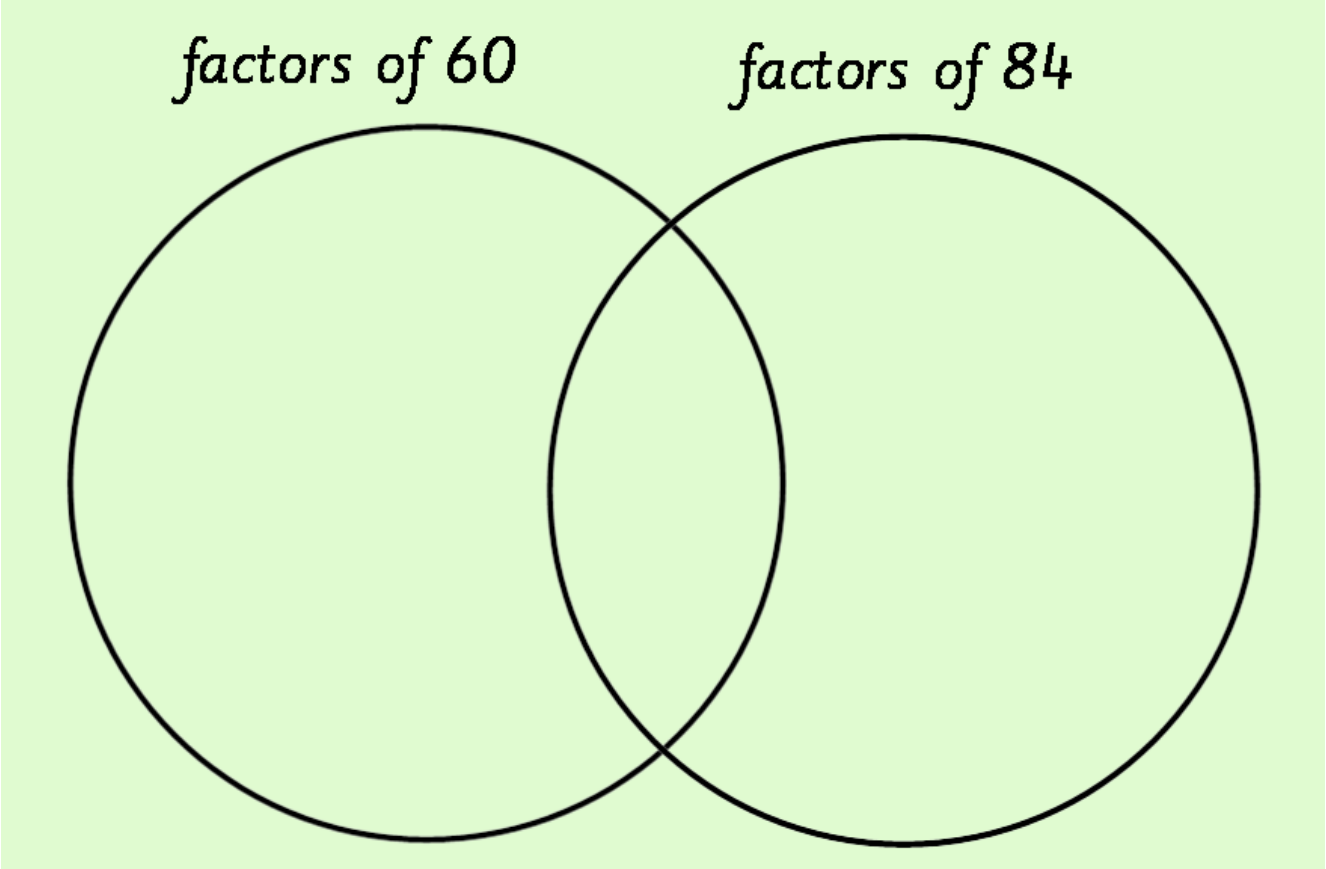
MPI: Finding factors

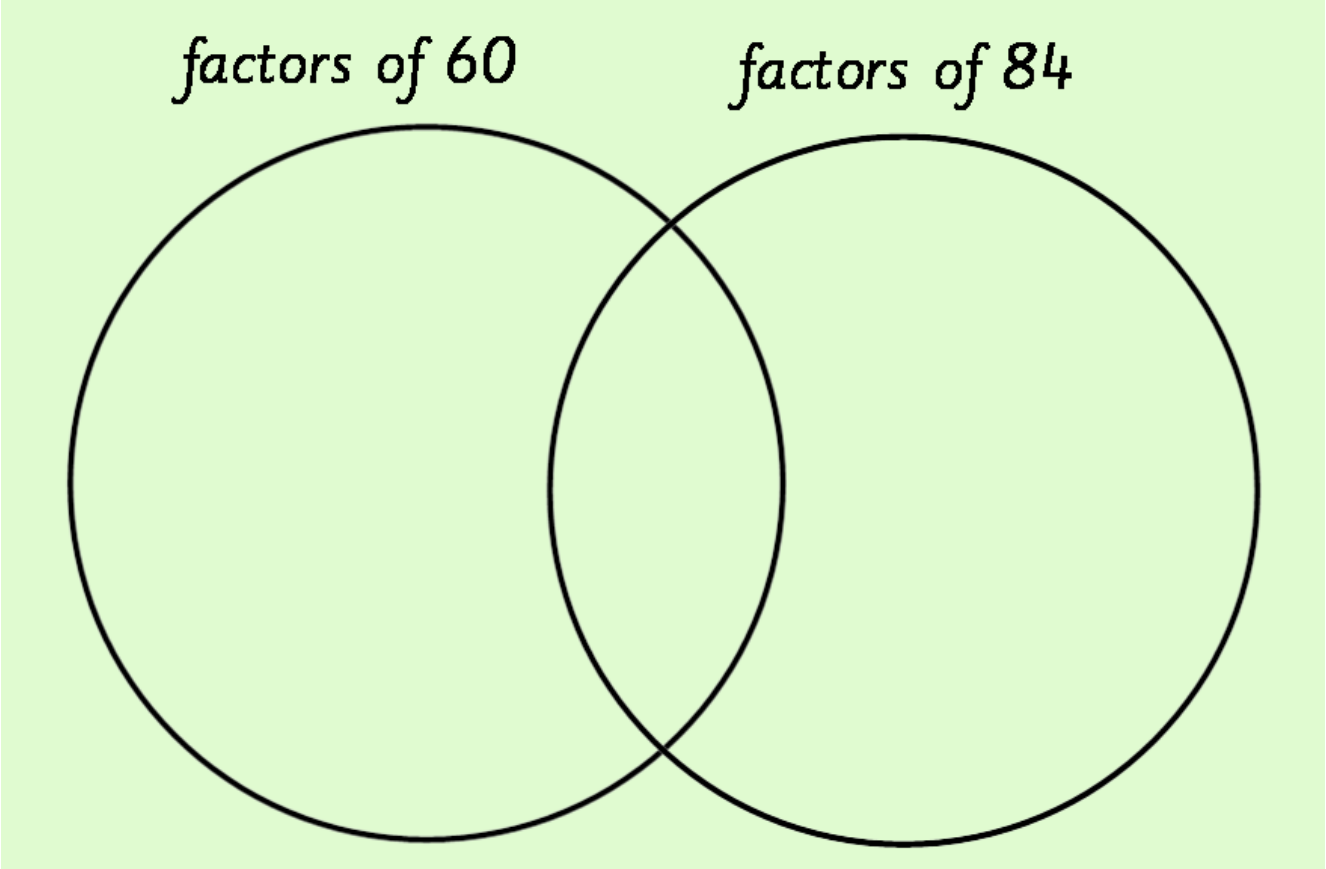
How do you know that the statements are true?

a) 5 is a factor of 195, but not a factor of 196

b) 3 is a factor of 177, but not a factor of 178

c) 20 is a factor of 180, but not a factor of 190


factors of 60
factors of 84

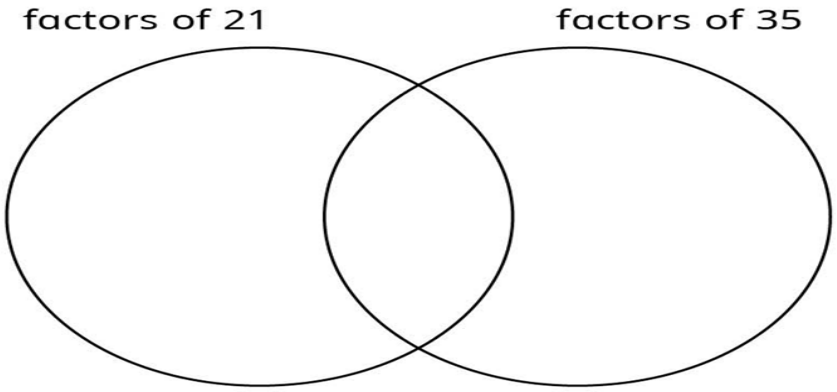

factors of 60
factors of 84

14.11..2024

MPI: Finding common factors

a) Write the numbers in the sorting diagram.

1 **3** **5** **7** **21** **35**



Simon thinks the highest common factor of 24 and 36 is 6.

Is he correct? Explain your answer.

_____

_____

_____

_____

_____

Complete the sentences.

a) The factors of 24 are _____

The factors of 36 are _____

The common factors of 24 and 36 are _____

b) The factors of 30 are _____

The factors of 45 are _____

The common factors of 30 and 45 are _____

14.11.24—CHALLENGE

MPI: Finding factors and common factors

Whitney bakes 24 cakes.

Dexter bakes 30 cakes.

Boxes can hold 2, 3, 4, 5, 6 or 10 cakes.

Whitney and Dexter want to share their cakes equally into boxes.

a) Which boxes could Whitney use?

_____

b) Which boxes could Dexter use?

_____

c) Which boxes could they both use?

_____

I am thinking of two numbers between 70 and 80
The common factors are 1, 2, 4 and 8

What are the two numbers that Teddy is thinking of?