



FLUENCY 1

A common multiple is a _____ number that is a shared _____ of _____ or more numbers.

FLUENCY 2

Use the 100 square to investigate common multiples.

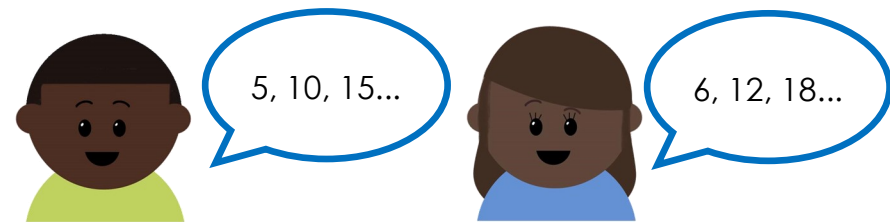
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Shade all the multiples of 6, 8 and 9. Then, use your findings to work out the next common multiple of 6, 8 and 9.

FLUENCY 3

Caleb is reciting the multiples of 5.

Anita is reciting the multiples of 6.



What are the first three numbers they will both say?

FLUENCY 4

Jerry and Jane are making up a gymnastics routine.

Jane does a tuck jump after every 7 steps.

Jerry takes 4 steps then does a star jump.

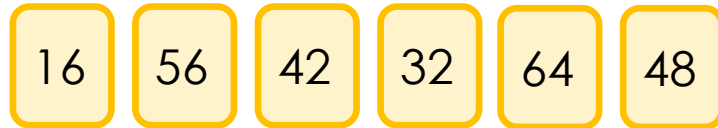
When will they both perform their jumps together?





REASONING 1

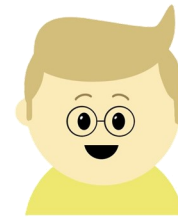
Which number is the odd one out?



Explain your reasoning!

REASONING 3

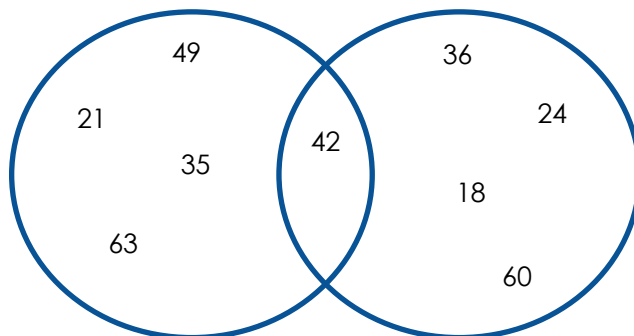
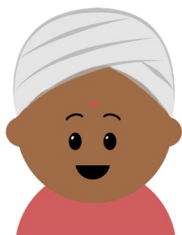
Convince Me!



Any multiple of 8 is also a multiple of 4 and any multiple of 4 is also a multiple of 8.

REASONING 2

What could the be headings on Ranjit's Venn diagram?



Explain your choices.

REASONING 4

True or False?



Any pair of numbers will have at least one common multiple.

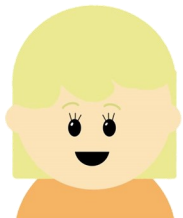
Explain your reasoning!





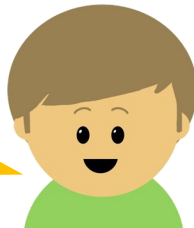
PROBLEM SOLVING 1

Can you work out the children's ages?
Their ages share a common multiple smaller than 50.
They are all over 7 years old.

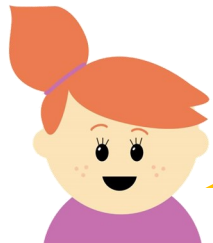


My age is also a multiple of 6.

I am twice as old a Millie.



I am the youngest.



PROBLEM SOLVING 2

A pod reaches the top of the London Eye every 21 minutes.

The bell in Big Ben chimes every 15 minutes.

Between 8 am to 8 pm, how many times a day will the people in the pod at the top of the London Eye hear the bell chime?

London Bridge opens every 126 minutes.

Will it ever open at the same time as the pod reaching the top and the bell chiming?

