

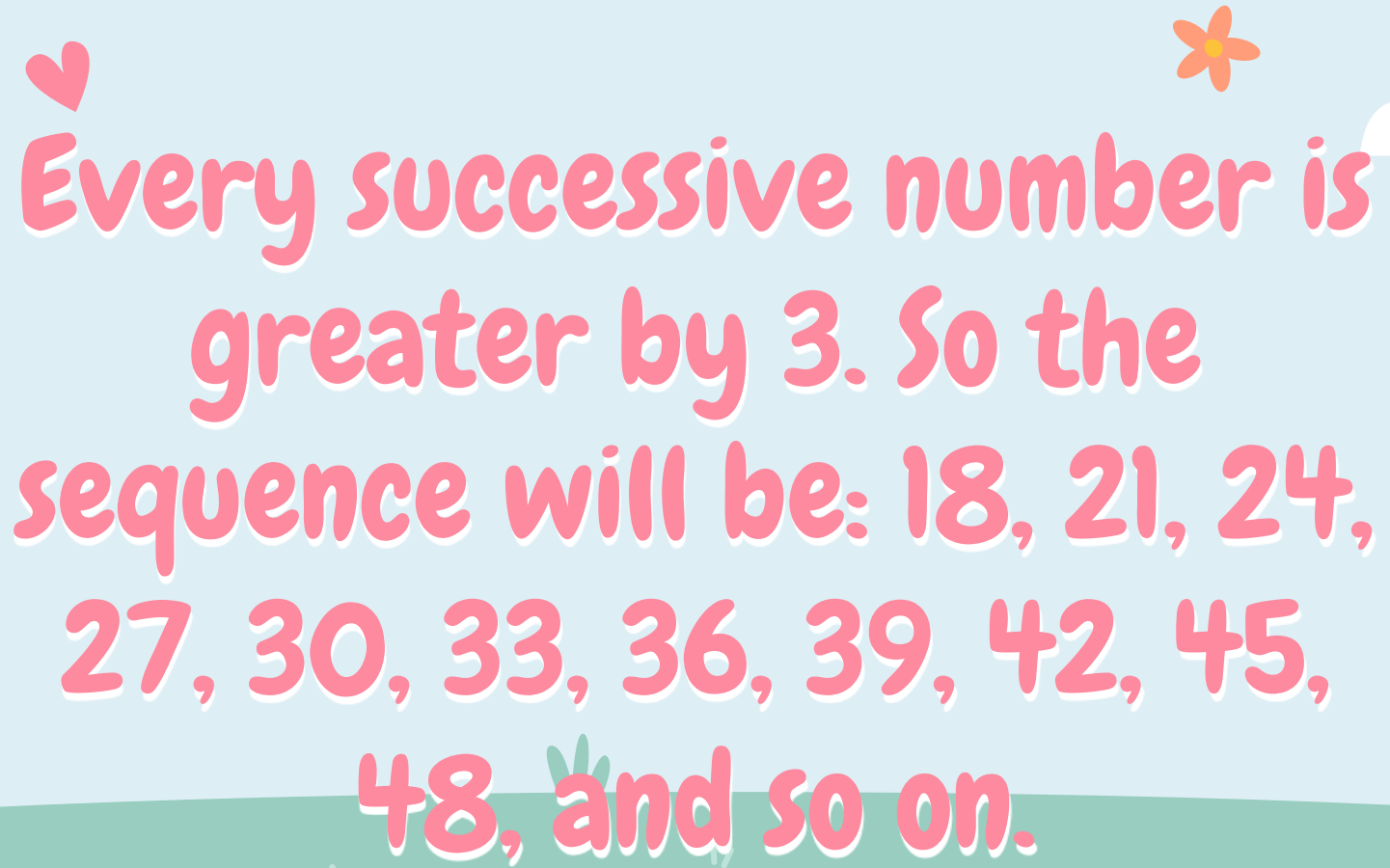
Puzzles

The Philomath Club



What is the
following number?
18, 21, 24, 27, 30,
33, 36, _____ ? _____





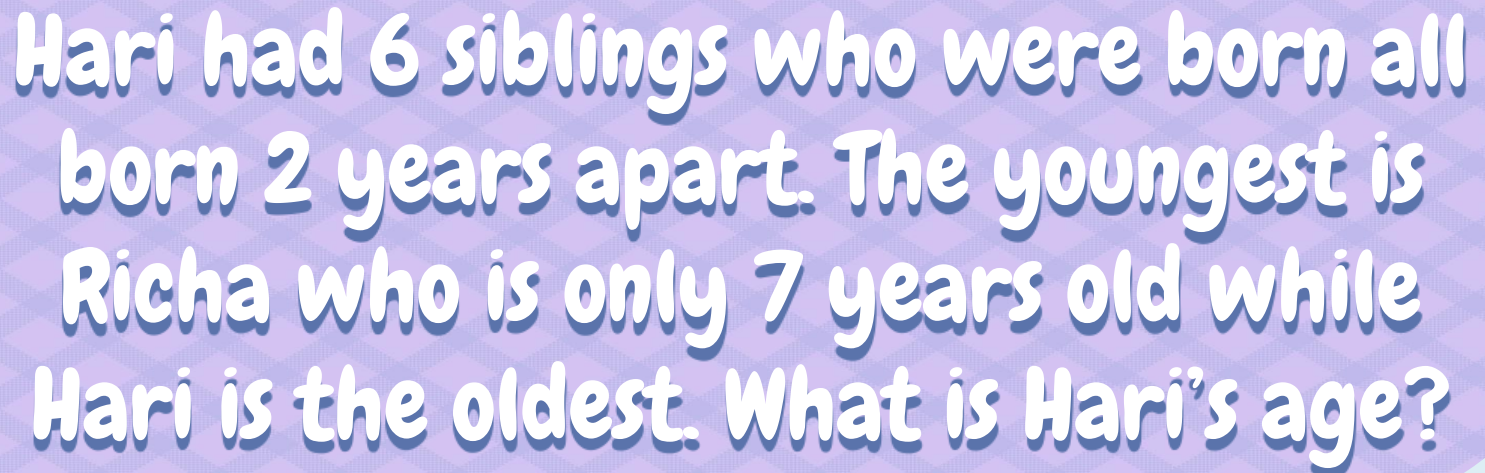
Every successive number is greater by 3. So the sequence will be: 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, and so on.

What is the
following number?
53, 51, 49, 47, 45,
43, _____ ? _____





every successive number is
smaller by 2. So the
sequence will be: 53, 51, 49,
47, 45, 43, 41, 39, 37, 35,
and so on.

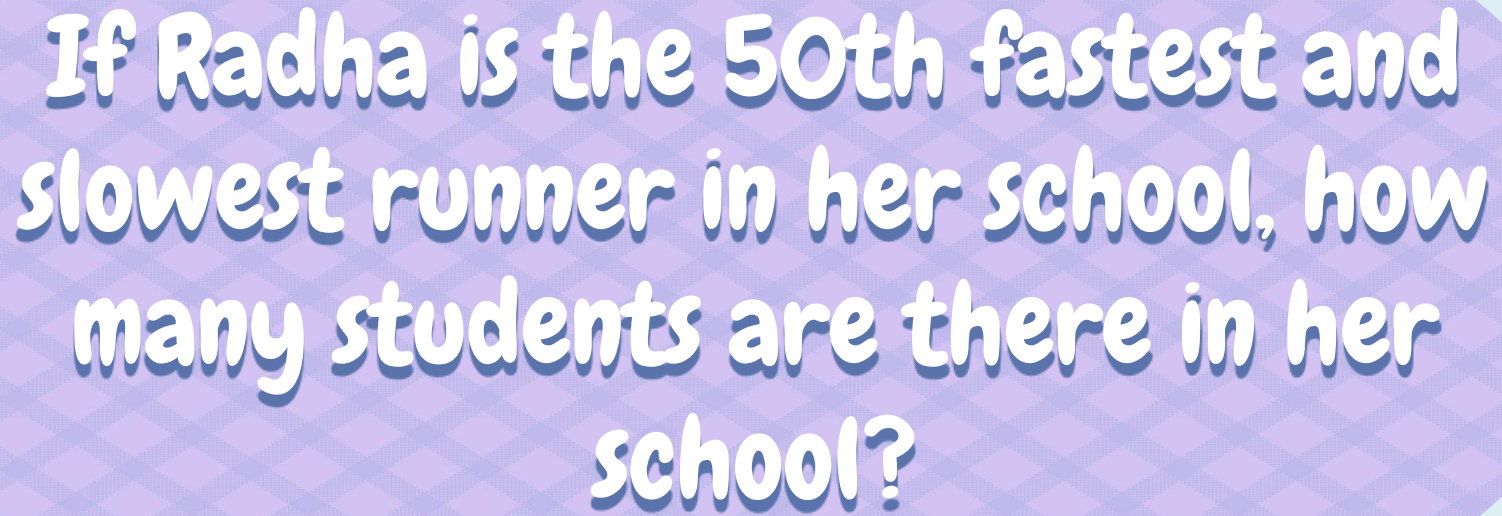


Hari had 6 siblings who were born all born 2 years apart. The youngest is Richa who is only 7 years old while Hari is the oldest. What is Hari's age?





Richa, the youngest sibling is 7 years old. Each sibling was born 2 years apart, and there are total seven children (Hari and his 6 siblings). So Hari's age is: $7 + 2 + 2 + 2 + 2 + 2 = 19$.



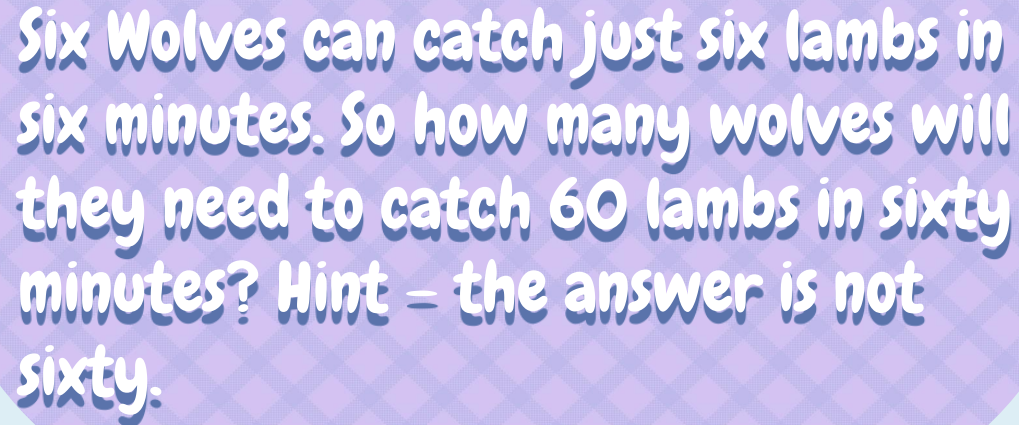
If Radha is the 50th fastest and slowest runner in her school, how many students are there in her school?





99





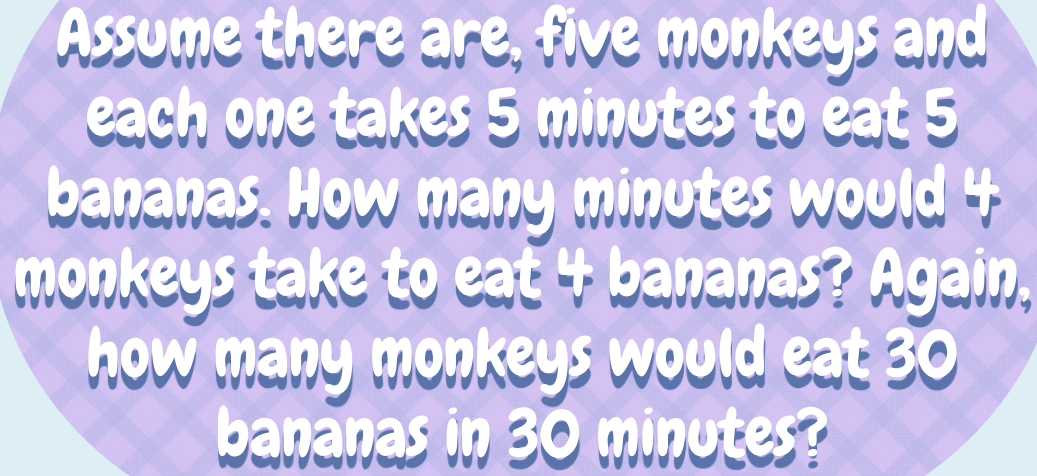
Six Wolves can catch just six lambs in six minutes. So how many wolves will they need to catch 60 lambs in sixty minutes? Hint - the answer is not sixty.





1 wolf can catch 1 lamb in six minutes. In 60 minutes, each wolf can catch 10 lambs. So, each wolf can catch ten lambs, and in sixty minutes, 6 wolves can catch 60 lambs.

Another method – Six Wolves. How? 6 wolves can catch six lambs in 6 minutes. If you multiply it by ten, the same wolves can catch sixty lambs in 60 minutes.



Assume there are, five monkeys and each one takes 5 minutes to eat 5 bananas. How many minutes would 4 monkeys take to eat 4 bananas? Again, how many monkeys would eat 30 bananas in 30 minutes?





Each monkey eats 5 bananas in 5 minutes, so 1 banana in 1 minute. So, if there are 4 monkeys and 4 bananas, they will take 1 minute only. On the other hand, if 30 bananas are being eaten in 30 minutes (i.e. 1 banana in 1 minute), then only 1 monkey.



How many 9's are
there between 1
and 100?



20. They are

9,19,29,39,49,59,69,79,89,9

0,91,92,93,94,95,96,97,98,9

9



Here is a line, make it
shorter without touching
it.





Draw a longer line next to it. This will make the first line seem shorter.





What do the
numbers 88, 96 and
11 all have in
common?



They look the same upside
down and right side up.



Solve this 9x9 sudoku

5			8	6			1	
		2	7		1	6		
	7	1				2	5	
9	1			2			7	
3			1	4	5			6
	6			9			2	4
	5	3				4	6	
		8	9		3	5		
2			5	1				7