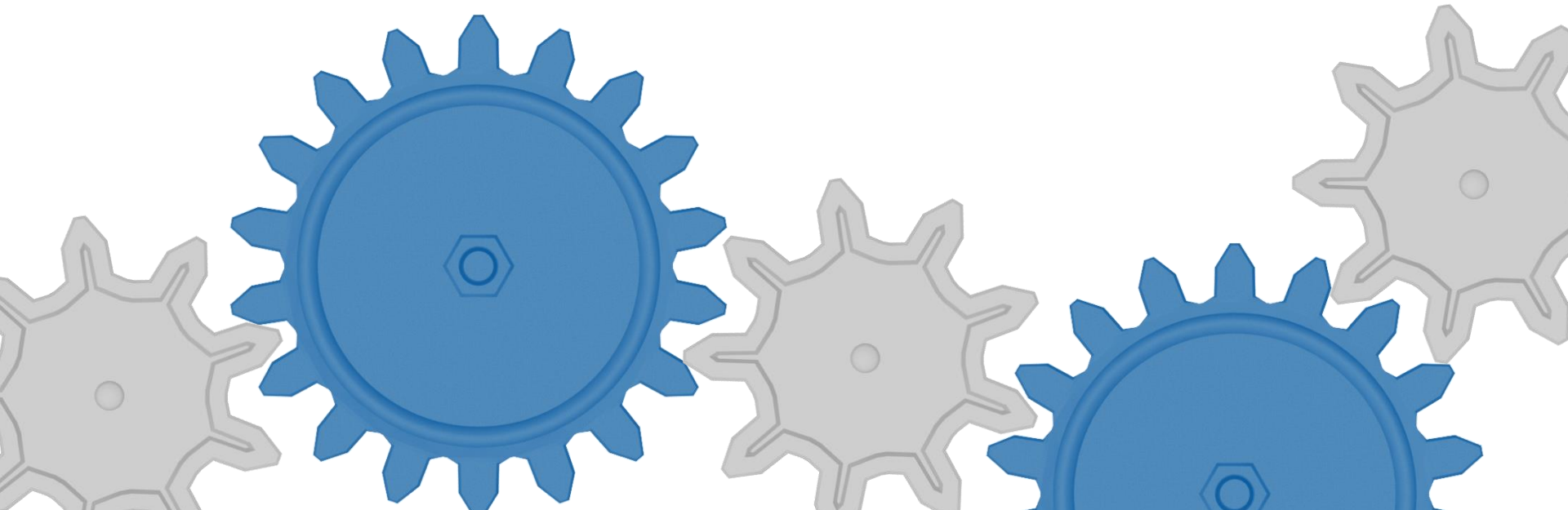


Do Now

Please work quietly on this Do Now.
Thank you!

Two consecutive positive integers are each less than 100. One integer is divisible by 17 and the other integer is divisible by 21. Find the greater of the two integers.





Do Now

Two consecutive positive integers are each less than 100. One integer is divisible by 17 and the other integer is divisible by 21. Find the greater of the two integers.

3A.5
GCF and LCM
(The easy way)

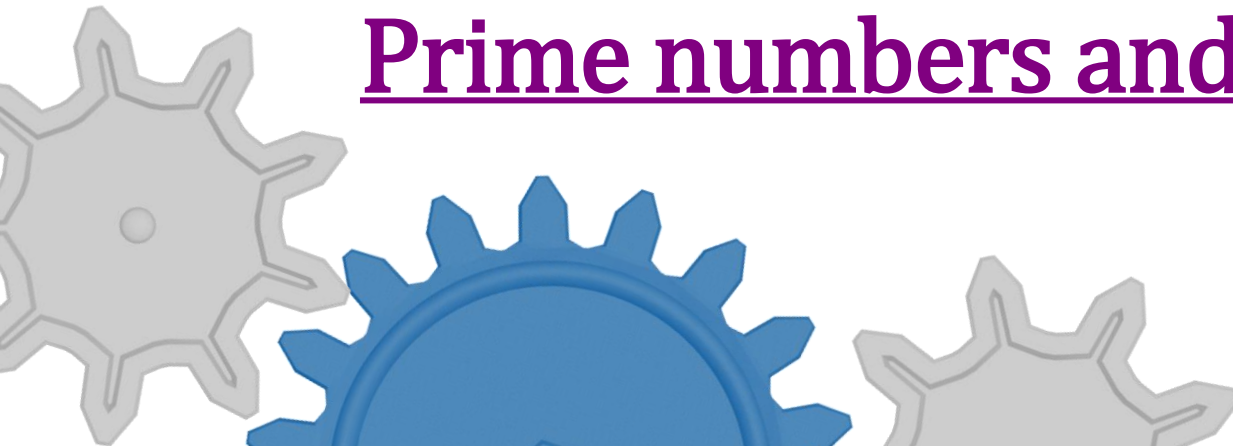
NOTES

Name: _____

Is 221 prime or composite?

semiprime number: a number with only one composite factor (the number itself).

Prime numbers and Cryptography



Find the GCF and LCM of 12, 36, and 60

Use UT models to identify all factors of 12, 36, and 60. Then, identify the greatest common factor (GCF) of 12, 36, and 60.

12
1 12
2 6
3 4

36
1 36
2 18
3 12
4 9
6 6

60
1 60
2 30
3 20
4 15
5 12
6 10

GCF = 12

List multiples of 12, 36, and 60 until you identify the LCM.

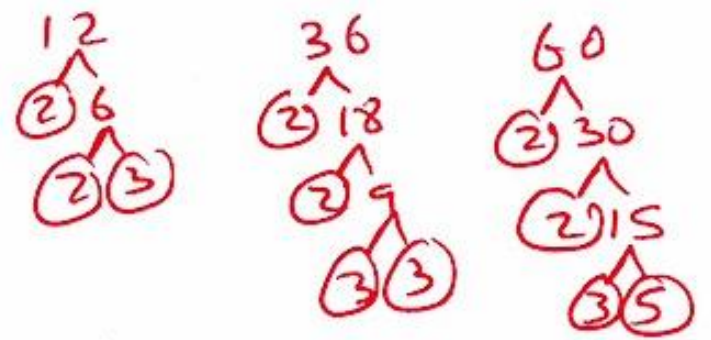
multiples of 12: 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180

multiples of 36: 36, 72, 108, 144, 180

multiples of 60: 60, 120, 180

LCM = 180

Express the prime decomposition of 12, 36, and 60 in expanded and exponential forms.



Find the GCF and LCM of 13 and 56

Find the GCF and LCM of 18 and 21

Find the GCF and LCM of 14, 84 and 140

Find the GCF and LCM of 24, 28 and 120