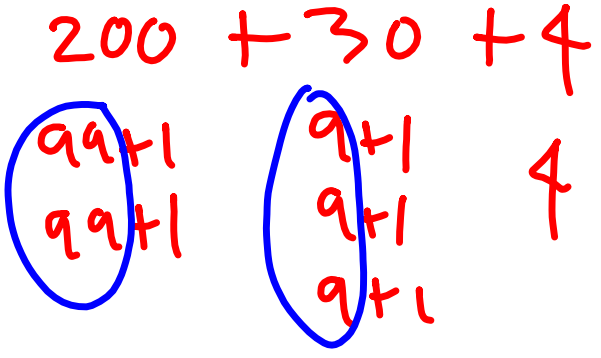
Divisible? Write **YES** or **No** in the box

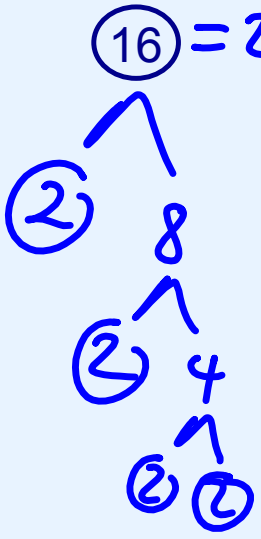
	132	3456	188	540
2	y	y	y	y
3	y	y	n	y
4	y	y	y	y
5	n	n	n	y
6	y	y	n	y
9	n	y	n	y
10	n	n	n	y

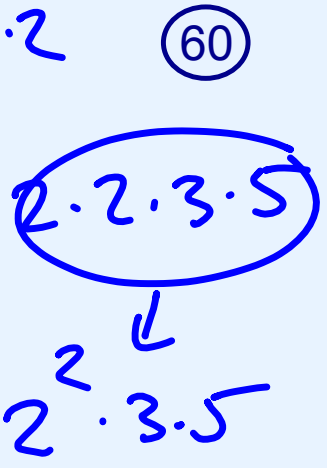
Explain the divisibility rule for 3 using the number 234.

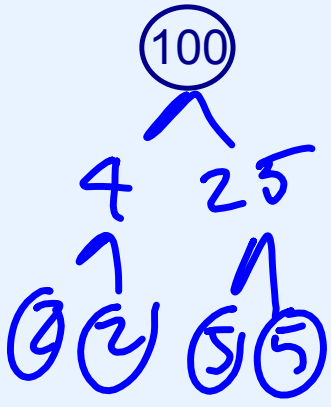


Explain the divisibility rule for 2,5,10? Why do you only look at 1 place value?

Use factor trees to break each number into its prime factors.





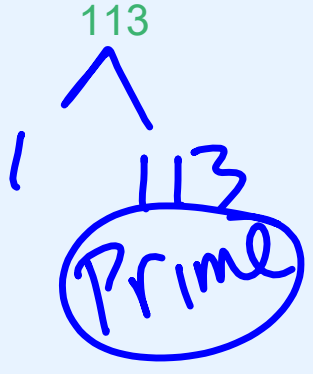


216

$2^3 \times 3^3$

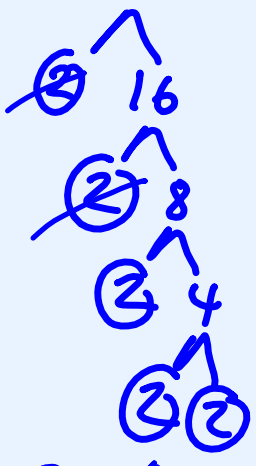
4000

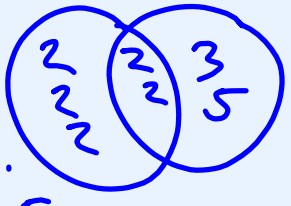
$2^5 \cdot 5^3$



Find the GCF/LCM of the following number pairs using the prime factorization method.

32 and 60





GCF = 4

LCM = 2·2·2·2·2·3·5 = 480

80 and 110

GCF = 10

LCM = 880

★ 182 and 240

GCF = 2

LCM = 4[illegible]

21,840

75 and 30

GCF = 15

LCM = ~~480~~ 150

Find 6 more factors of 240 using the Prime factorization method.

2x2x2x2x3x5 = 240

2 - 2x2x2x3x5 120

3 - 2x2x2x2x5 80

5 - 2x2x2x2x3 48

---

4 2x2 - 2x2x3x5 60

6 2x3 - 2x2x2x5 40

10 2x5 - 2x2x2x3 24

15 3x5 - 2x2x2x2 16

---

12 2x2x3 - 2x2x5 20

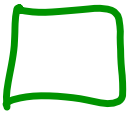
8 2x2x2 - 2x3x5 30

1,2,3,4,5,6,8,10,12, 15, 16, 20, 24, 30, 40, 48, 60, 80, 120, 240

Represent the following numbers in as many ways as you can! **(Include Prime factorization, expanded form, base 10 blocks, words and all 4 operations)**

112

$100+10+2$



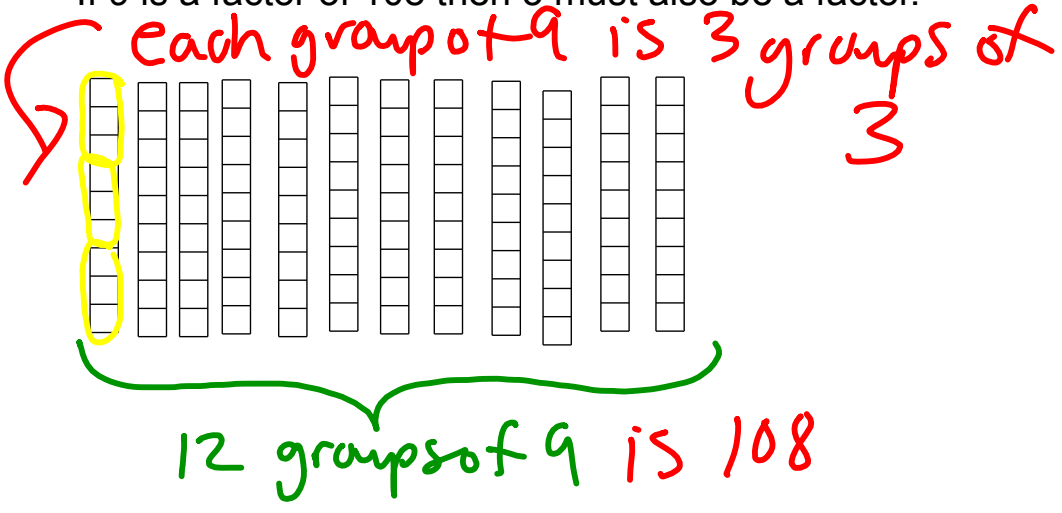
2×56

one hundred twelve

10^2+12 5^3-13 $\frac{224}{2}$ $\frac{21}{7} \times 4+100$

250

If 9 is a factor of 108 then 3 must also be a factor.



All multiples of 8 will also be multiples of 4

All groups of 8 are just 2 groups of 4

8 is 2-4's

16 is 4 fours

42 is common multiple of 2 and 7

7, 14, 21, 28. 35. 42

2,4,6,8,10, 12,14,16,18,20,22,24,26,28,30

32,34,36,38,40,42

if i count by 2's and 4's they meet at 42!

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Xtra Practice

GCF LCM	36	70	306	210
60	GCF of 36 & 60 LCM of 36 & 60			
42				
204				
150				

Find ALL the factors of 360 using the prime factors

October 18, 2022

Put a check mark in the box if the number in the top row is divisible by the number in the left column

Xtra Practice

	346	522	2400
2			
3			
5			
6			