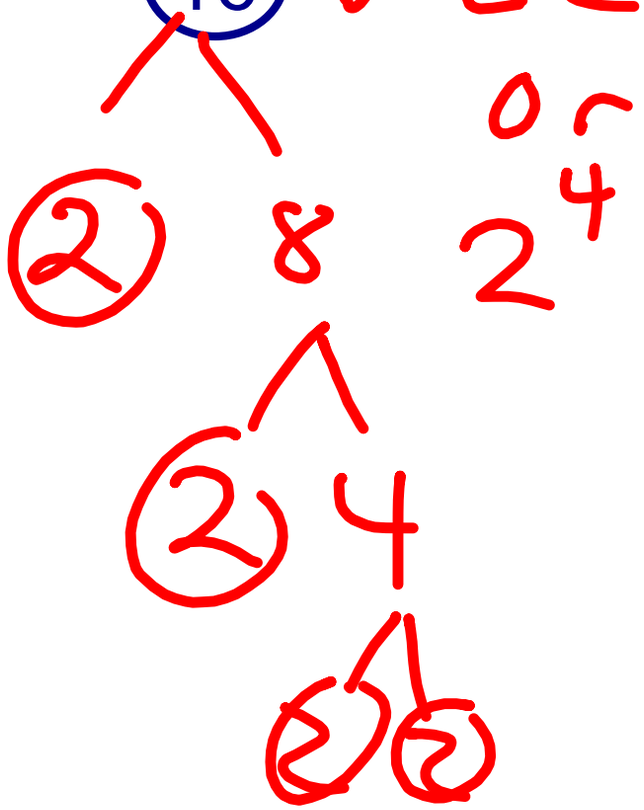
Divisible? Yes or No

	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

Use factor trees to break each number into its prime factors

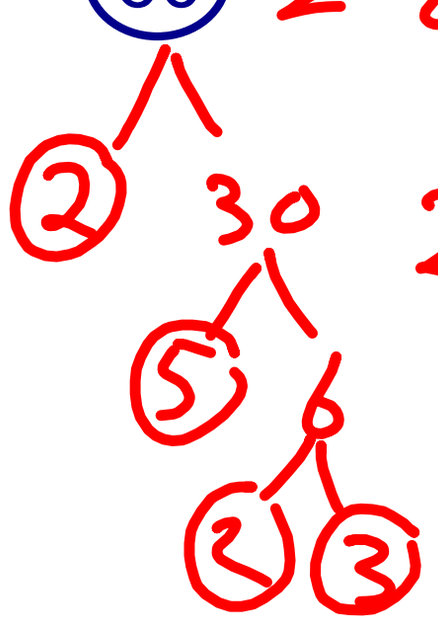
$2^2 \cdot 5^2$ or $2 \cdot 2 \cdot 5 \cdot 5$

16 $2 \cdot 2 \cdot 2 \cdot 2$



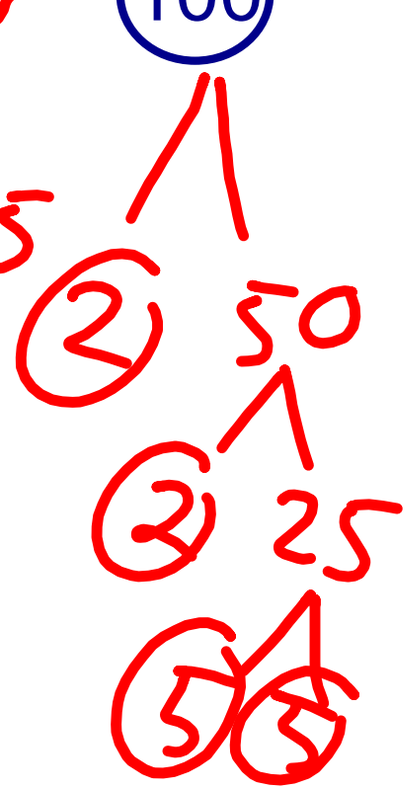
2^4

60 $2 \cdot 2 \cdot 3 \cdot 5$



$2^2 \cdot 3 \cdot 5$

100



Find the Prime Factorization

216

113

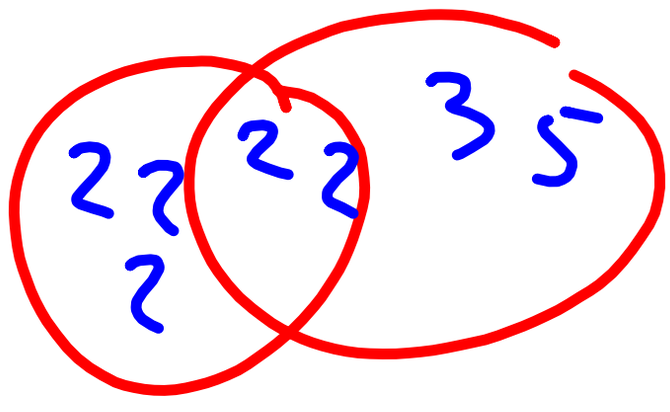
4000

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

32 and 60

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

$2 \cdot 2 \cdot 3 \cdot 5$

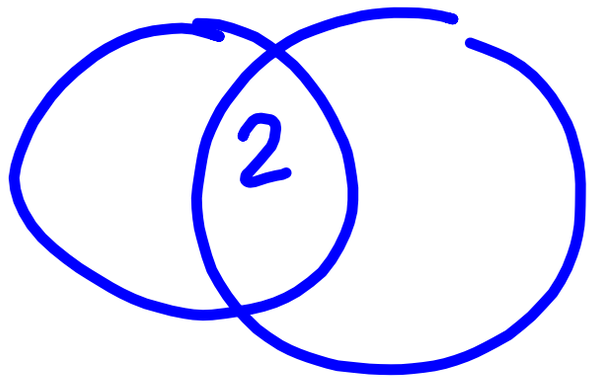


GCF = 4

182 and 240

$2 \cdot 7 \cdot 13$

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5$

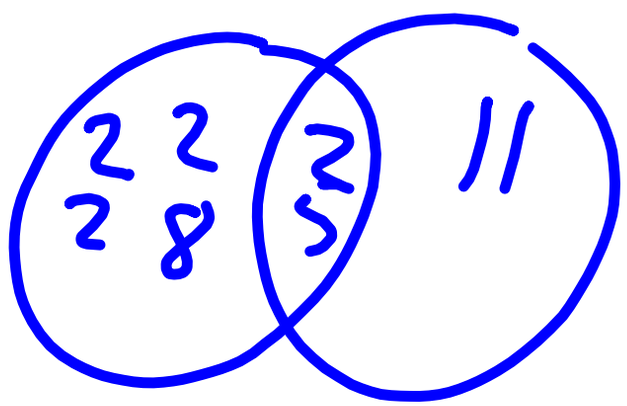


Find the LCM of the following number pairs using the GCF method.

80 and ~~210~~ 110

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 5$

$2 \cdot 5 \cdot 11$



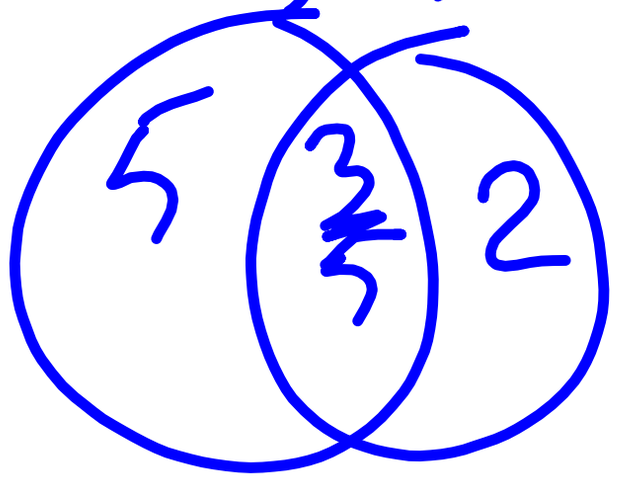
LCM

880

~~175~~ and 30~~6~~

$5 \cdot 5 \cdot 3$

$5 \cdot 3 \cdot 2$



LCM

150

Using PRIME FACTORS
find the GCF and LCM of:

360

&

160

Find all the 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

Change into Scientific notation

000.0000436 _____

2480000 _____

1345700 _____

3400000000000 _____

1.23×10^{4} _____

6.5×10^{-7} _____

Represent the following numbers in as many ways as you can!

112

one hundred twelve

1 : 1×112

100+10+1

111+1

112−0

224÷2

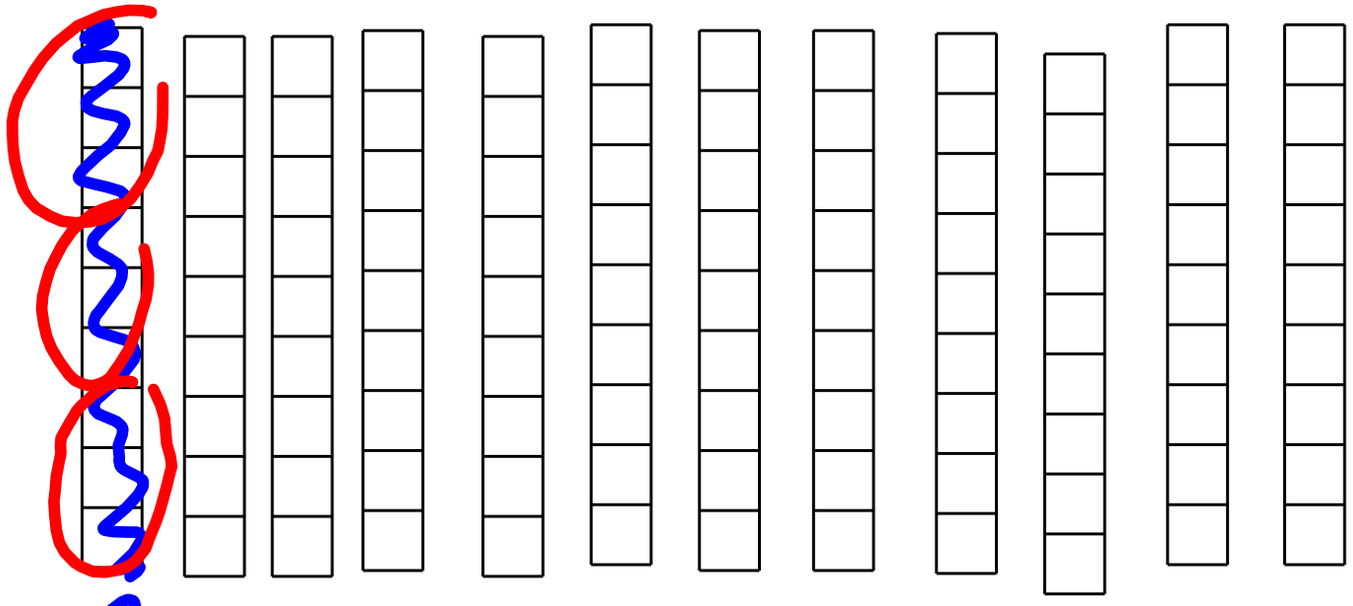
250

210+40

50×5

11.24×10

If 9 is a factor of 108 then 3 must also be a factor.
Explain using pictures and words, but not numbers.



group of 9

each group of 9 is 3 groups of 3 there are 12 groups of 9 in 108 so both 9 and 3 are factors of 108

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

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			