

## FACTORS, MULTIPLES and PRIMES

Page	Description
1	Find multiples of the numbers 2 to 9
2	Find factors of the numbers 2 to 20
3	Recap on factors of the numbers 2 to 20. Which ones are prime?
4	Use a Venn Diagram to find the highest common factor
5	Venn diagram using factors and multiples
6	Find the highest common factor and lowest common multiple



Find all the times a number is written in the main part of the grid to find all the factors of that number. 6 has been done for you

1	2	3	4	5	<b>6</b>	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	4	<b>6</b>	8	10	12	14	16	18	20	22	24	26	28	30	32				
3	<b>6</b>	9	12	15	18	21	24	27	30	33									
4	8	12	16	20	24	28	32												
5	10	15	20	25	30	35													
<b>6</b>	12	18	24	30	36														
7	14	21	28	35															
8	16	24	32																
9	18	27	36																
10	20	30	40																
11	22	33																	
12	24	36																	
13	26	39																	
14	28	42																	
15	30	45																	
16	32																		
17	34																		
18	36																		
19	38																		
20	40																		

FACTORS of

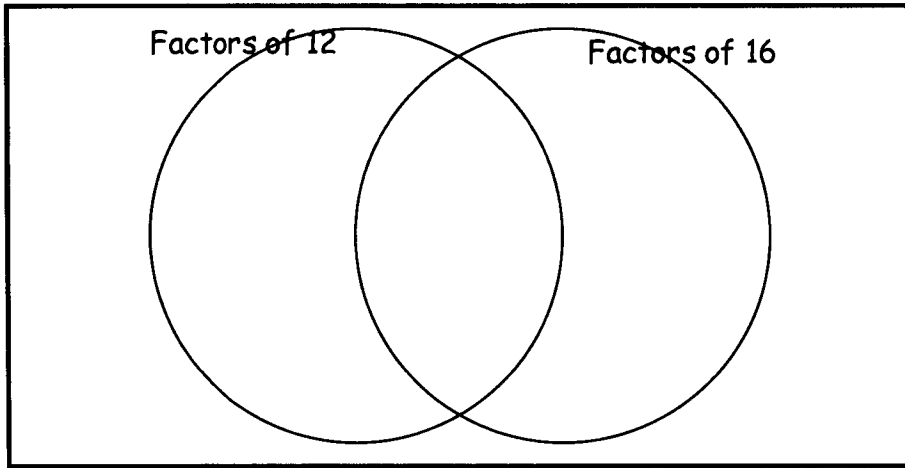
2	
3	
4	
5	
6	1 x 6 and 2 x 3. Factors are 1, 2, 3 and 6
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

2

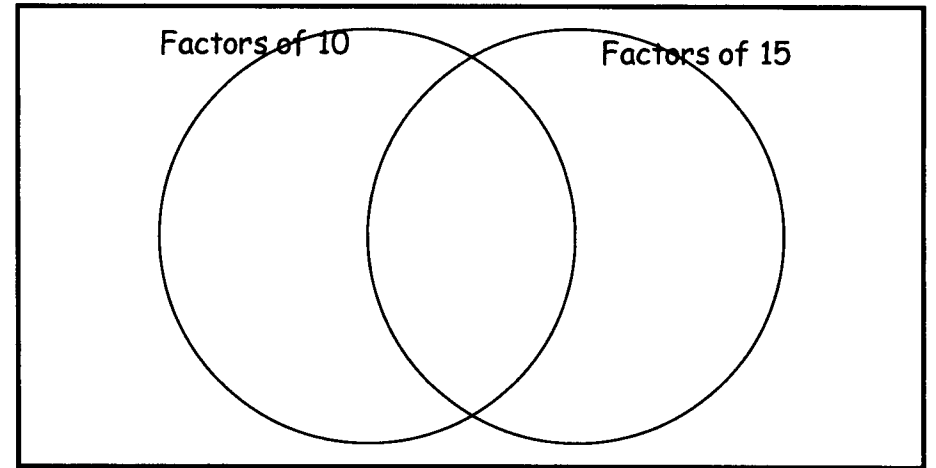
Fill in the table of factors. The first four numbers have been done for you

		Factors																		Number of factors	Prime			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			19	20	
Number	1	1																				1	No	
	2	1	2																				2	Yes
	3	1		3																			2	Yes
	4	1	2		4																		3	No
	5																							
	6																							
	7																							
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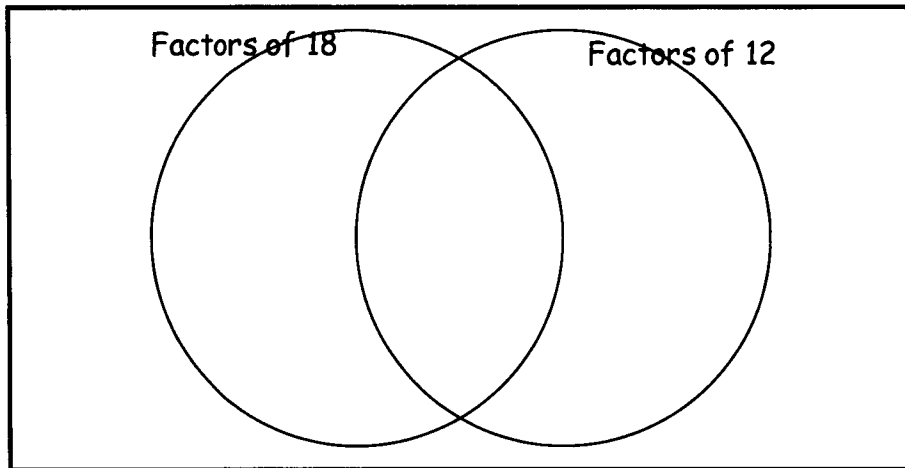
Complete the Venn Diagrams by writing in all the factors



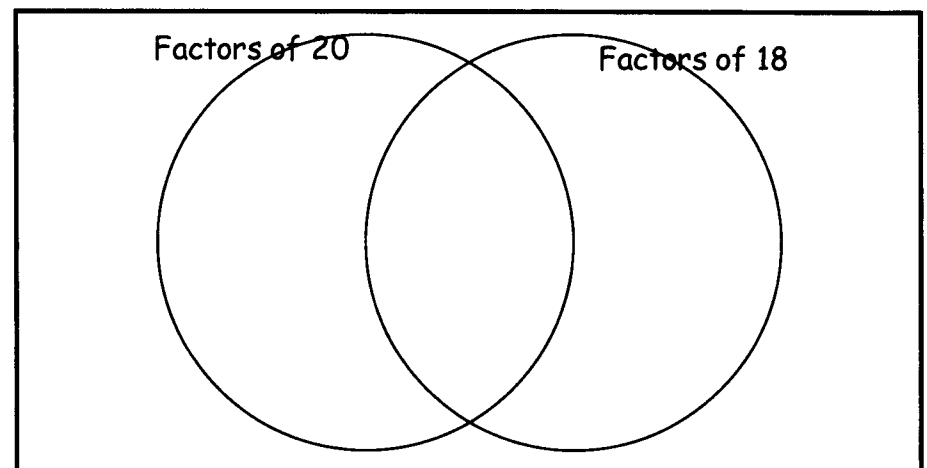
What is the highest number that is a factor of both 12 and 16?



What is the highest number that is a factor of both 10 and 15?



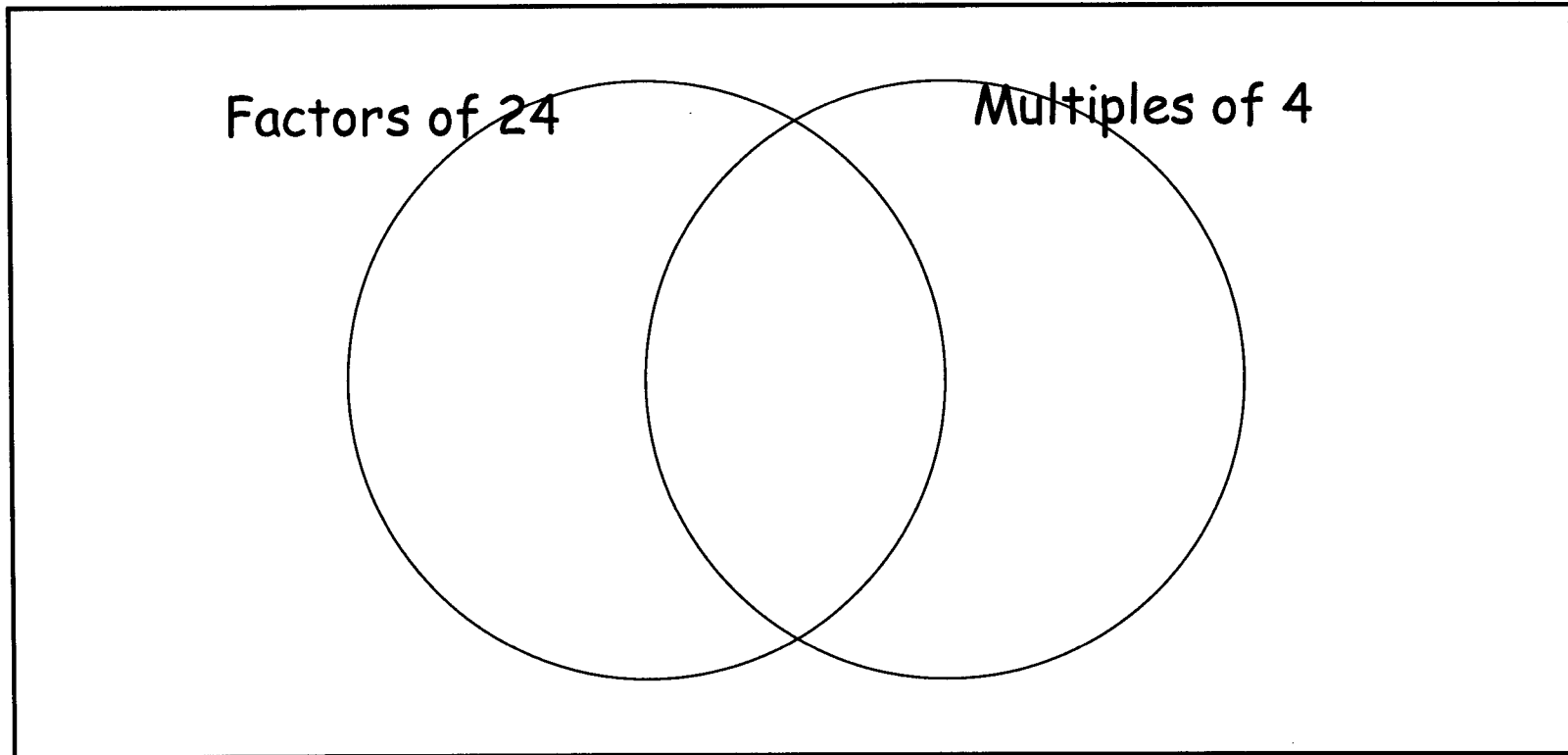
What is the highest number that is a factor of both 12 and 18?



What is the highest number that is a factor of both 20 and 18?

1 2 3 4 5 6 7 8 9 10 11 12

13 14 15 16 17 18 19 20 21 22 23 24



5

Highest Common Factor (HCF) and Lowest Common Multiple (LCM)

Qu.	Numbers	HCF	LCM
1	4 and 6		
2	9 and 12		
3	7 and 10		
4	5 and 8		
5	8 and 16		
6	12 and 18		
7	20 and 24		
8	10 and 12		
9	2, 3 and 5		
10	4, 6 and 8		

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