FACTORS AND MULTIPLES

4

Q1. Identify the co-primes from the following pair of numbers:

(13, 26), (11, 27) , (4, 18), (8, 25), (7, 28), (5,43), (19, 57)

Answer: _____

Q2. Give an example to prove each of the following statements:

a. Two consecutive numbers will always be co primes even if both the numbers are composite.

Example: _____

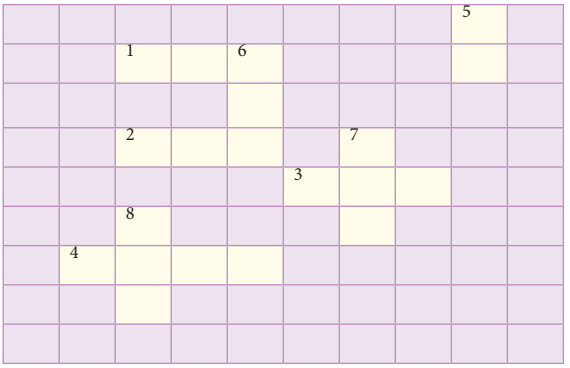
b. The LCM of two consecutive numbers is their product.

Example: _____

Q3. How many pairs of two consecutive numbers can you write such that both of them are primes? List the pair(s).

Answer: _____

Q4. Fill in the crossword with the help of the clues given below:



Across	Down
1. LCM of (13, 23)	5. Prime factor of 1331
2. The smallest 3 digit multiple of 6	6. Greatest 3 digit common multiple of (108, 9)
3. HCF of (500,1500)	7. LCM of (9, 100)
4. Smallest 4 digit composite number	8. Smallest 3 digit factor of 8000

Q5. State true or false:

a. HCF of any two prime numbers is 1. _____

b. 180009 is divisible by 3, 6 and 9. _____

c. 13 is the smallest 2 digit prime number. _____

d. The multiple of a number divides the number exactly. _____

Q6. Two whole numbers 'a' and 'b' have HCF and LCM as 1 and 29 respectively. If a>b, find the value of a and b.

Answer: _____

Q7. Three boys step off together. Their steps measure 10 cm, 12 cm and 15 cm respectively. At what distance from the starting point will they step off together again?

Answer: _____

Q8. Replace * in 5 * 03 to make the number divisible by 11.

Answer: _____

Q9. Find the greatest number which divides 266 and 1754 leaving a remainder 2 in each case.

Answer: _____

Q10. Fill in the blanks:

a. If a number is divisible by 3 and 5 both, it will be divisible by _____ also.

b. The HCF of two prime numbers is _____.

c. _____ is the factor of every number.

d. _____ is the smallest odd prime number.

ANSWERS

1. (11, 27) , (8, 25), (5,43)
2. a. (14,15)

   b. LCM of (7,8)=56
3. 1 pair: (2,3)
4.

								1	
		2	9	9				1	
				7					
		1	0	2		9			
					5	0	0		
		1				0			
	1	0	0	0					
		0							

5. a. True

   b. False

   c. False

   d. False
6. a = 29, b =1
7. 60 cm
8. 5203
9. 24
10. a. 15 b. 1

    c. 1 d. 3