



factorize the number into its prime factors

الإجابات نهاية الامتحان

Q1

Multiple choice

1. Relatively Prime Numbers: are numbers whose only common factor is 1.
2. The common factor of all numbers is
3. The common Multiple of all numbers (except zero) is zero.
4. The LCM for any relatively prime numbers is their product.
5. the GCF of 12 and 56 is
6. Which pair of numbers has a GCF of 15?  
A. 10, 15   B. 30, 60   C. 21, 45   D. 45, 75
7. Which number is not a factor of 10?  
A. 1   B. 2   C. 4   D. 5
8. Write the prime factorization of 42 =
9. Write a pair of numbers whose greatest common factor is 4  
a. (24, 18)   b. (12, 24)   c. (16, 8)   d. (16, 20)

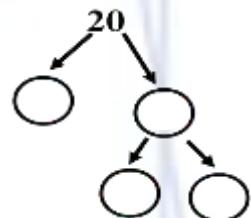
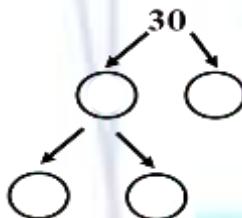


10. the prime factorization of 91 is .....

a.  $23 \times 7$    b.  $13 \times 7$    c.  $7 \times 21$    d.  $13 \times 8$

Q2

## Find the GCF of the two numbers 20 and 30

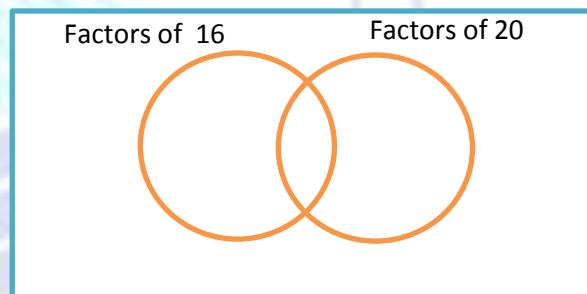


Q2

## Find the greatest common factor for each pair of numbers using Venn

16,20

- a) Complete the venn diagram
- b) Common factors are \_\_\_\_\_
- b)  $\text{GCF}(24, 18) =$

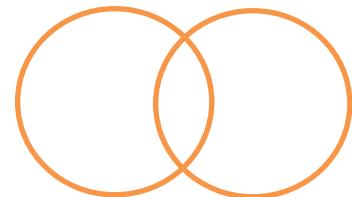




Q2

using the following diagram, complete:

- 1) the two numbers represented in the venn diagram are ..... And .....
- 2) the common prime factors of the two numbers are .....
- 3) the G.C.F for the two numbers is .....
- 4) the L.C.M for the two numbers is .....



Q2

Find the LCM of the two numbers 18 and 24



Q1

Multiple choice

1. Relatively Prime Numbers: are numbers whose only common Factor is .....
- a. 1    b. 0    c. number itself    d. integer number
2. The common factor of all numbers is
- a. 0    b. 2    c. 1
3. The common Multiple of all numbers (except zero) is zero.
- a. True    b. False
4. The LCM for any relatively prime numbers is their .....
- a. division    b. sum    c. product.    d. subtraction
5. the GCF of 12 and 56 is .....
- a. 12    b. 10    c. 6    d. 4
6. Which pair of numbers has a GCF of 15?
- A. 10, 15    B. 30, 60    C. 21, 45    D. 45, 75
7. Which number is not a factor of 10?
- A. 1    B. 2    C. 4    D. 5
8. Write the prime factorization of 42 =
- a.  $2 \cdot 3 \cdot 7$     b.  $2 \cdot 3 \cdot 6$     c.  $2 \cdot 5 \cdot 7$
9. Write a pair of numbers whose greatest common factor is 4
- a. (24, 18)    b. (12, 24)    c. (16, 8)    d. (16, 20)

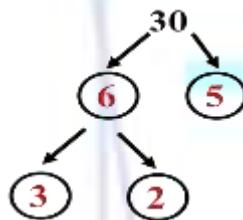


10 . the prime factorization of 91 is .....

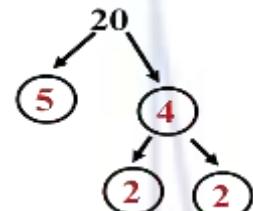
a.  $23 \times 7$    b.  $13 \times 7$    c.  $7 \times 21$    d.  $13 \times 8$

Q2

Find the GCF of the two numbers 20 and 30



$$\begin{aligned}20 &= 2 \times 2 \times 5 \\30 &= 2 \times - \times 5 \times 3 \\GCF &= 2 \times 5 = 10\end{aligned}$$

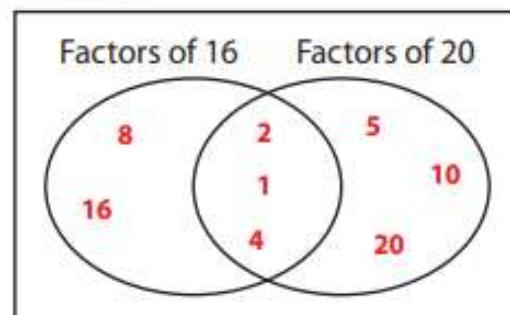


Q2

Find the greatest common factor for each pair of numbers using Venn

16,20

c) Complete the venn diagram  
b) Common factors are  $1, 2, 4$   
d)  $GCF(16, 20) = 4$

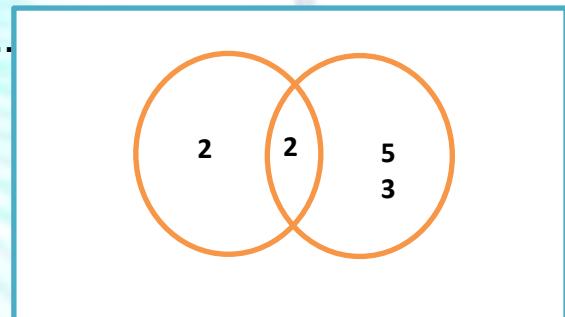




Q2

using the following diagram, complete:

- 1) the two numbers represented in the venn diagram are ...4.... And ...30.....
- 2) the common prime factors of the two numbers are ...2.....
- 3) the G.C.F for the two numbers is .....2.....
- 4) the L.C.M for the two numbers is .....60.....



Q2

Find the LCM of the two numbers 18 and 24

$$\begin{aligned}18 &= 2 \times 3 \times 3 \\24 &= 2 \times 3 \times - \times 2 \times 2 \\LCM &= 2 \times 3 \times 3 \times 2 \times 2 = 72\end{aligned}$$

