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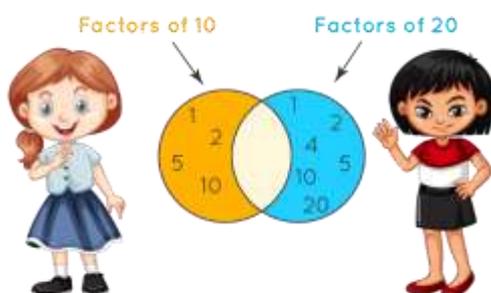
## FACTORS WORKSHEET - 3

- 1) Write the prime factorization form of 720
- 2) The number of factors of the number 24 is \_\_\_\_.
- 3) State true or false
  - a) A number is not a factor of itself.
  - b) Factors are also the multiples of the number.
- 4) Match the following

a) Prime factorization of 12	i) $2^2 \times 3^2$
b) Prime factorization of 18	ii) $2^2 \times 3$
c) Prime factorization of 36	iii) $2 \times 3^2$

- 5) Fill in the blanks in the prime factorization form of 144:  
 $144 = 2^4 \times \underline{\quad}^2$

- 6) Write all the factors of the expression:  $ab(x+y)(c+d)$
- 7) Jimmy and Mia are playing with circles. Mia writes the factors of 10 in the orange circle and Jimmy writes the factors of 20 in the blue circle. Find the common factors of 10 and 20.



- 8) Write the smallest four digit number in the prime factorization form.

9) Which of the following number is not a factor of 150

a) 25  
15

b) 12

c) 30

d)

10) Which of the following is the prime factorization form of 360

a)  $2^4 \times 3^3 \times 5^2$

b)  $2^4 \times 3^3 \times 5$

c)  $2^3 \times 3^2 \times 5^2$

d)  $2^3 \times 3^2 \times 5$



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- Barbara Cabrera

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**ANSWERS**

1)	$2^4 \times 3^2 \times 5$
2)	8
3)	a) False    b) false
4)	a) $\rightarrow$ ii), b) $\rightarrow$ iii), c) $\rightarrow$ i)
5)	3
6)	A, b, (x+y), and (c+d)
7)	1, 2, 5, and 10
8)	$2^3 \times 5^3$
9)	b) 12
10)	d) $2^3 \times 3^2 \times 5$

## FUN FACT

1. Prime numbers are having only two factors 1 and the number itself.
2. All the composite numbers are having more than two factors.
3. The number is divides completely by its factors without leaving any remainder.

