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Factors and Multiples Worksheet-3

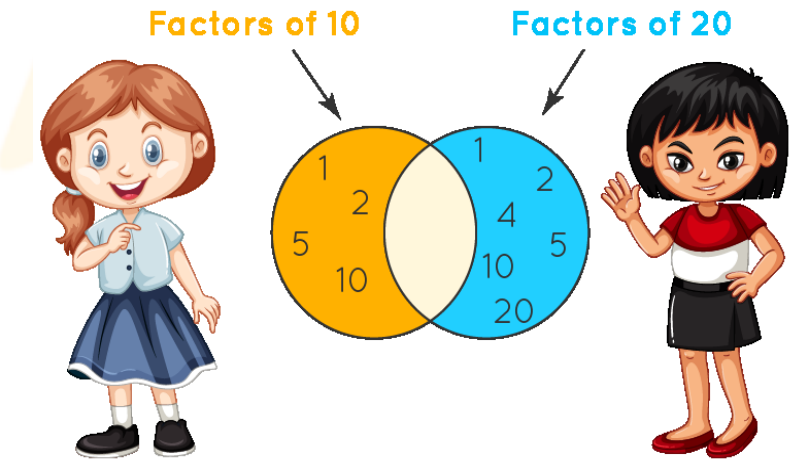
1. Ms. Emma has to make queues of her 60 grade 4 students in such a way that there will be equal number of children in each queue. Can you help her doing that? List down all the possible ways.

2. Write the largest four digit number in the prime factorization form.

3. Write 'True' or 'False' for the given statements.
   a) Every factor of a number is an exact divisor of that number.
   b) Multiples are infinite for every natural number.

4. Fill the given blank:
   9× 10 = 90. Here 9 and 10 are the …… of 90.

5. 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.



6. List down any 6 multiples of 10.

   _____, _____, _____, _____, _____, _____

7. The length, breadth and height of a hall are 625 units, 75 units and 125 units respectively. Find the longest tape which can exactly measure the three dimensions of the hall.

8. Write the smallest 4-digit number in the form of its prime factors.

9. Solve the riddle:

"My age is a multiple of 8 and 16
and
it lies between 50 to 70 years.
How old am I?

10. Complete the table.

a) Any 5 multiples of 8	
b) All the factors of 17	
c) 3 common multiples of 3 and 6	
d) Prime factors of 100	

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- Gary Schwartz

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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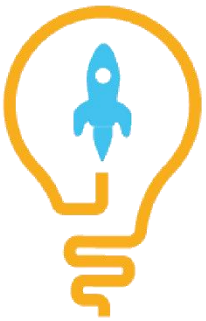

ANSWERS

1)	1 × 60, 2 × 30, 3 × 20, 4 × 15, 5 × 12, 6 × 10, 10 × 6, 12 × 5, 15 × 4, 20 × 3, 30 × 2, 60 × 1
2)	3 x 3 x 11 x 101
3)	a)True b)True
4)	Factors
5)	1, 2, 5, 10
6)	10, 20, 30, 40, 50, 60 (answers may vary)
7)	25 units
8)	1000 = 2 × 2 × 2 × 5 × 5 × 5
9)	64 years
10)	a) 8, 16, 24, 32, 40 (answers may vary) b) 1, 17 c) 6,12, 18 (answers may vary d) 2 × 2 × 5 × 5

FUN FACT

1. Prime numbers have only two factors, 1 and that number itself.
2. All composite numbers have more than two factors.
3. There are infinite number of multiples of any given number.