Grade 4th Math Worksheet 1: LCM (Least Common Multiple) (Intermediate Level)

1. Find the LCM of the following pairs of numbers.

a) LCM of 6 and 8
Multiples of 6: _____
Multiples of 8: _____

LCM of 6 and 8 is: _____

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b) LCM of 12 and 18
Multiples of 12: _____
Multiples of 18: _____

LCM of 12 and 18 is: _____

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c) LCM of 15 and 20
Multiples of 15: _____
Multiples of 20: _____

LCM of 15 and 20 is: _____

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d) LCM of 9 and 14
Multiples of 9: _____
Multiples of 14: _____

LCM of 9 and 14 is: _____

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2. Choose the correct LCM for each pair.

a) What is the LCM of 8 and 10?
a) 80
b) 30
c) 40
d) 24

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b) What is the LCM of 5 and 12?
a) 60
b) 24
c) 30
d) 12

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c) What is the LCM of 7 and 18?
a) 72
b) 126
c) 36
d) 54

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d) What is the LCM of 4 and 9?
a) 36
b) 12
c) 72
d) 18

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3. True or False?

a) The LCM of 5 and 7 is 35.
____ True
____ False

b) The LCM of 10 and 15 is 60.
____ True
____ False

c) The LCM of 3 and 9 is 9.
_____ True
_____ False

d) The LCM of 6 and 9 is 36.
_____ True
_____ False

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4. Find the LCM using prime factorization.

a) Find the LCM of 8 and 12 using prime factorization.
Prime factorization of 8: _____
Prime factorization of 12: _____

LCM of 8 and 12 is: _____

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b) Find the LCM of 18 and 24 using prime factorization.
Prime factorization of 18: _____
Prime factorization of 24: _____

LCM of 18 and 24 is: _____

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5. Word Problems:

a) Rachel and her friend Emma are planning to meet. Rachel's bus arrives every 10 minutes, and Emma's bus arrives every 12 minutes. If they both catch their buses at the same time, how many minutes will pass before they both arrive at the bus stop together again?

a) 60
b) 120
c) 30
d) 48

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b) A gardener plants flowers every 5 days, and a gardener next door plants flowers every 8 days. If they start planting flowers on the same day, after how many days will both gardeners plant flowers on the same day again?

a) 40
b) 32
c) 24
d) 16

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6. Find the LCM using the Division Method.

a) Find the LCM of 4 and 10 using the Division Method.

- Step 1: Divide by 2
- Step 2: Divide by 2 again
- Step 3: Divide by 5

LCM of 4 and 10 is: _____

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b) Find the LCM of 6 and 8 using the Division Method.

- Step 1: Divide by 2
- Step 2: Divide by 2 again
- Step 3: Divide by 3

LCM of 6 and 8 is: _____

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7. Bonus Challenge:

What is the LCM of 6, 8, and 10?
a) 60
b) 120
c) 90
d) 40

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8. Extra Practice:

a) The LCM of two numbers is 36. If one number is 12, what is the other number?

a) 18

b) 24

c) 20

d) 30

b) If the LCM of two numbers is 72, and one number is 24, what is the other number?

a) 36

b) 18

c) 48

d) 72

--BE THE CHAMPION!--