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Factors & Multiples: Practice Activity

Directions: Read and answer the following questions to assess your knowledge of factors & multiples.

1. What are the factors of 30?
2. What are some of the multiples of 2?
3. What are the factors of 12?
4. What are some multiples of 6?
5. What are the factors of 54?
6. Is 14 prime or composite?
7. Is 99 prime or composite?
8. Is 7 prime or composite?
9. Is 23 prime or composite?
10. Is 11 prime or composite?
11. Is 2 prime or composite?
12. Is 74 prime or composite?
13. Is 38 prime or composite?
14. Is 79 prime or composite?
15. What is the prime factorization of 32? Put your answer in exponential form.
16. What is the prime factorization of 96? Put your answer in exponential form.
17. What is the prime factorization of 48? Put your answer in exponential form.

18. What is the prime factorization of 72? Put your answer in exponential form.

19. What is the prime factorization of 54? Put your answer in exponential form.

20. What is the GCF of 24 and 8?

21. What is the LCM of 4 and 5?

22. What is the GCF of 48 and 32?

23. What is the LCM of 3 and 5?

24. What is the GCF of 72 and 144?

25. What is the LCM of 8 and 15?

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Answers

1. 1, 2, 3, 5, 10, 15, and 30
2. 2, 4, 6, 8, 10, 12, 14, 18, 20…… write as many as you want
3. 1, 2, 3, 4, 6 and 12
4. 6, 12, 18, 24, 30, 36, 42, 48…… write as many as you wish
5. 1, 2, 3, 6, 9, 18, 27, and 54.
6. composite
7. composite
8. prime
9. prime
10. prime
11. prime
12. Composite
13. composite
14. Prime
15. 2^5
16. 3×2^5
17. $2^4 \times 3$
18. $2^3 \times 3^2$

19. 2×3^3

20. 8

21. 20

22. 16

23. 15

24. 72

25. 120