# FIND THE G.C.F

list
1. 18 and 24
2. 20 and 30

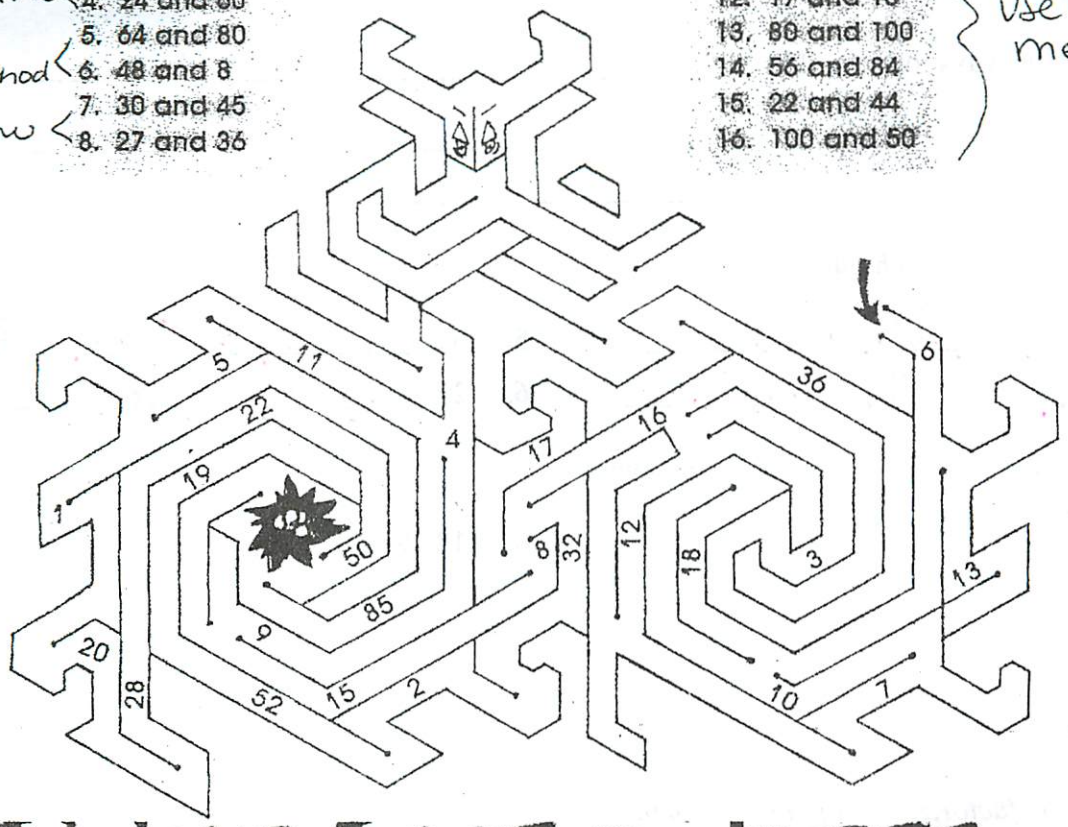
factor tree
3. 21 and 28
4. 24 and 60

ladder method
5. 64 and 80
6. 48 and 8

rainbow
7. 30 and 45
8. 27 and 36

9. 8, 12, 16
10. 22, 44, 88
11. 65 and 20
12. 17 and 15
13. 80 and 100
14. 56 and 84
15. 22 and 44
16. 100 and 50

Use any method.




# PRIME FACTOR TREES

Find the prime factors for each composite number by completing a factor tree. The first factor tree has been done for you. Then, express each number as a product of primes using exponents.

Example:

$45 = 3^2 \cdot 5$

45
9 × 5
3 × 3 × 5

A. 56

×

B. 72

×

C. 80

×

D. 100

×

E. 120

×

F. 200

×

G. 156

×

H. 126

×

Name _____

# Factors

1. List all the ways to factor 15. _____

2. List all the ways to factor 16. _____

_____

*List all the factors for each number.*

3. 45 1, 3, 5, 9, 15, 45

4. 81 1, 3, 9, 27, 81

5. 32 1, 2, 4, 8, 16, 32

6. 21 1, 3, 7, 21

*Find the common factors for each set of numbers.*

7. 14, 21 _____

8. 18, 24, 48 _____

*Write the prime factorization of each number.*

9. 56 _____

10. 40 _____

*Find the GCF for each set of numbers.*

11. 5, 15 _____

13. 32, 48 _____

15. 40, 60, 80 _____

12. 7, 30 _____

14. 15, 25, 75 _____

16. 64, 144 _____