

Why Did the Candle Fall in Love?

Key



Le. Find each greatest common factor in the adjacent answer column. Write the letter of the answer in the box containing the number of the exercise.

The factors of each number are given. Use them to find each GCF.

24	36	72	162
1 24	1 36	1 72	1 162
2 12	2 18	2 36	2 81
3 8	3 12	3 24	3 54
4 6	4 9	4 18	6 27
	6	6 12	9 18
		8 9	

- GCF of 24 and 36. **12**
- GCF of 24 and 72. **24**
- GCF of 24 and 162. **6**
- GCF of 36 and 72. **36**
- GCF of 72 and 162. **18**

Answers 1-5	
K 1	E 12
V 4	A 18
H 6	T 24
U 9	E 36

Write the factors of each number. Then use them to find each GCF.

18	50	60	75
1 18	1 50	1 60	1 75
2 9	2 25	2 30	3 25
3 6	5 10	3 20	5 15
		4 15	
		5 12	
		6 10	

- GCF of 18 and 50. **2**
- GCF of 18 and 60. **6**
- GCF of 18 and 75. **3**
- GCF of 50 and 75. **25**
- GCF of 60 and 75. **15**

Answers 6-10	
T 2	M 6
E 3	D 10
O 4	H 15
N 5	T 25

a. The prime factorizations of four numbers are given. Use them to find each GCF.

$$A = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 \cdot 17$$

$$B = 2 \cdot 2 \cdot 5 \cdot 5 \cdot 11$$

$$C = 3 \cdot 3 \cdot 3 \cdot 11 \cdot 17 \cdot 17$$

$$D = 2 \cdot 3 \cdot 3 \cdot 5 \cdot 11 \cdot 11$$

- GCF of A and B. **20**
- GCF of A and C. **51**
- GCF of A and D. **30**
- GCF of B and D. **110**
- GCF of C and D. **99**

Answers 11-15	
R 20	L 60
H 30	C 99
I 33	E 110
T 51	S 121

Write the prime factorizations of the four numbers on the left. Then use them to find each GCF.

$$700 = 2 \cdot 2 \cdot 5 \cdot 5 \cdot 7$$

$$40 = 2 \cdot 2 \cdot 2 \cdot 5$$

$$125 = 5 \cdot 5 \cdot 5$$

$$98 = 2 \cdot 7 \cdot 7$$

- GCF of 700 and 40. **20**
- GCF of 700 and 125. **25**
- GCF of 700 and 98. **14**
- GCF of 40 and 125. **5**
- GCF of 125 and 98. **1**

Answers 16-20	
M 1	C 14
S 4	P 20
F 5	E 25
N 10	B 35

10 H 14 E 7 M 4 E 2 T 9 T 13 H 17 E 16 P 1 E 11 R 19 F 8 E 15 C 6 T 20 M 5 A 12 T 18 C 3 H

