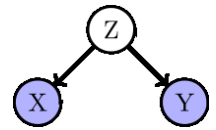# Factors
Dissecting Numbers

> **Factors**: Factors are numbers we multiply together to get another number. A number can have few or many factors. Factors are an essential part of fractions.
>
> - The factors of 8 are 1, 2, 4, 8 because 1x8 and 2x4 equal 8.
> - The factors of 13 are only 1, 13.
> - Always list factors from smallest to greatest.

Directions: List all the factors for each number. Circle the *greatest common factor*.

A.

8	1, 2, ④, 8
12	1, 2, 3, ④, 6, 12

What times what equals Z?

1.
15	
18	

2.
32	
40	

3.
24	
36	

4.
11	
44	

5.
27	
15	

6.
29	
17	

7.
30	
24	

8.
45	
30	

9.
16	
12	

10.
33	
66	

11.
12	
8	
36	

12.
25	
27	
14	

13. What year did roller skates first debut? 30,321 – 28,578 = _____
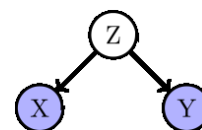
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A.

8	1, 2, ④, 8
12	1, 2, 3, ④, 6, 12

What times what equals Z?

1.
15	1, ③, 5, 15
18	1, 2, ③, 6, 9, 18

2.
32	1, 2, 4, ⑧, 16, 32
40	1, 2, 4, 5, ⑧, 10, 20, 40

3.
24	1, 2, 3, 4, 6, 8, ⑫, 24
36	1, 2, 3, 4, 6, 9, ⑫, 18, 36

4.
11	1, ⑪
44	1, 4, ⑪, 44

5.
27	1, ③, 9, 27
15	1, ③, 5, 15

6.
29	①, 29
17	①, 17

7.
30	1, 2, 3, 5, ⑥, 10, 15, 30
24	1, 2, 3, 4, ⑥, 8, 12, 24

8.
45	1, 3, 5, 9, ⑮, 45
30	1, 2, 3, 5, 6, 10, ⑮, 30

9.
16	1, 2, ④, 8, 16
12	1, 2, 3, ④, 6, 12

10.
33	1, 3, 11, ㉝
66	1, 2, 3, 6, 11, 22, ㉝, 66

11.
12	1, 2, 3, ④, 6, 12
8	1, 2, ④, 8
36	1, 2, 3, ④, 6, 9, 12, 18, 36

12.
25	①, 5, 25
27	①, 3, 9, 27
14	①, 2, 7, 14

13. What year did roller skates first debut? 30,321 – 28,578 = __**1743**__