

A cartoon character of a notepad with a face, arms, and legs, holding a pencil. The character is blue with a spiral binding at the top. It has a smiling face with large eyes and a small mouth. It is holding a large blue pencil with a pink eraser. The character is standing on a grey shadow. The word "ple" is visible to the left of the character.



Factoring and Lowest Common Multiple Intro

- 8** Find the lowest common multiple of these numbers from their factorization by choosing the set of all distinct factors

$$10(= 2 \times 5)$$

$$5(= 5)$$

A	13	B	10	C	31
D	74	E	2	F	1

- 9** Find the lowest common multiple of these numbers from their factorization by choosing the set of all distinct factors

$$13(= 13)$$

$$10(= 2 \times 5)$$

A	125	B	910	C	130
D	5	E	129	F	127

- 10** Find the set of all the distinct prime factors of these numbers

7, 9

A	{7, 3, 5}	B	{7, 3, 5, 6, 5}
C	{7, 3}	D	{7, 3, 3, 5}
E	{7, 5, 3}	F	{7, 3, 3}

- 11** Find the set of all the distinct prime factors of these numbers

7, 10

A	{7, 2, 2}	B	{7, 2, 5}
C	{7, 2, 5, 3}	D	{7, 5}
E	{3, 2, 5}	F	{7, 5, 7, 3, 6}

- 12** Find the lowest common multiple of these numbers

8, 6

A	52	B	19	C	11
D	24	E	100	F	20

- 13** Find the lowest common multiple of these numbers

13, 6

A	310	B	387	C	230
D	35	E	78	F	389

- 14** Is 5145 a multiple of 1155

A	B
No	Yes

- 15** Which of these two numbers is a prime number?

31, 33

A	B
31	33



Factoring and Lowest Common Multiple Intro

16 Is c a multiple of 35

A

No

B

Yes

17 Is 882 a multiple of both 210 and 126?

A

No

B

Yes

18 Is c a multiple of both 6 and 21?

A

No

B

Yes

19 Which of these two numbers is a prime number?

53,55

A

55

B

53

20 Is this a prime or a composite number?

41

A

Composite

B

Prime

21 Which of these two numbers is a prime number?

37,54

A

37

B

54

22 Is this a prime or a composite number?

47

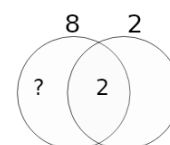
A

Prime

B

Composite

23 Complete the factor diagram and use it to find lowest common multiple of these numbers.



A	8	B	5	C	7
D	25	E	4	F	46



Factoring and Lowest Common Multiple Intro

24 Is this a prime or a composite number?

31

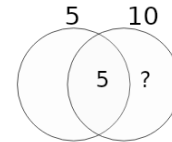
A

Composite

B

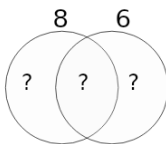
Prime

25 Complete the factor diagram and use it to find lowest common multiple of these numbers.



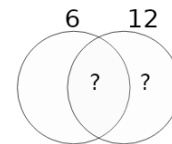
A	66	B	10	C	12
D	68	E	14	F	5

26 Use the factor diagram to find the lowest common multiple of these numbers



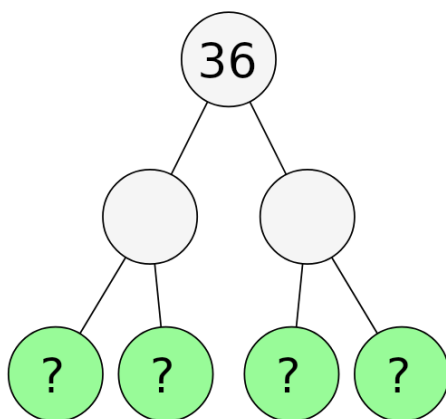
A	96	B	12	C	28
D	22	E	7	F	24

27 Use the factor diagram to find the lowest common multiple of these numbers



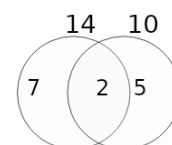
A	12	B	8	C	39
D	75	E	43	F	6

28 Finish the factor tree to find the prime factorization of this number



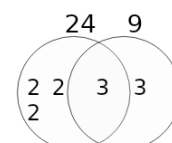
A	$2 \times 3 \times 3$	B	$2 \times 2 \times 3 \times 3 \times 3$	C	$2 \times 2 \times 3 \times 3 \times 11$
D	$2 \times 2 \times 3 \times 3$	E	$2 \times 6 \times 3$	F	$2 \times 2 \times 9$

29 Find the LCM of these numbers by multiplying the set of all distinct prime factors



A	70	B	12	C	31
D	416	E	74	F	35

30 Find the LCM of these numbers by multiplying the set of all distinct prime factors

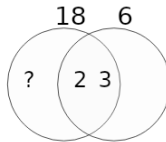


A	73	B	76	C	75
D	72	E	505	F	503



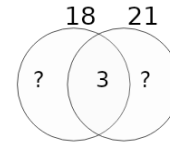
Factoring and Lowest Common Multiple Intro

31 Complete the factor diagram and use it to find lowest common multiple of these numbers.



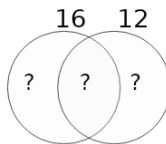
A	15	B	51	C	10
D	18	E	13	F	8

32 Complete the factor diagram and use it to find lowest common multiple of these numbers.



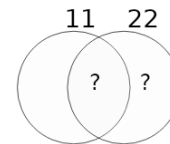
A	756	B	128	C	126
D	65	E	121	F	254

33 Use the factor diagram to find the lowest common multiple of these numbers



A	50	B	287	C	139
D	48	E	26	F	195

34 Use the factor diagram to find the lowest common multiple of these numbers



A	10	B	19	C	128
D	6	E	22	F	44

35 Find the set of all the distinct prime factors of these numbers

16, 18

A	{2, 2, 2, 2, 3, 3, 3}	B	{2, 2, 2, 2, 3}
C	{2, 2, 2, 2, 3, 3, 5}	D	{2, 2, 5, 2, 3, 3}
E	{2, 2, 2, 2, 3, 3}	F	{2, 2, 2, 2, 3, 3, 6}

36 Find the lowest common multiple of these numbers from their factorization by choosing the set of all distinct factors

$$16(= 2 \times 2 \times 2 \times 2)$$

$$11(= 11)$$

A	86	B	179	C	176
D	172	E	699	F	173

37 Find the lowest common multiple of these numbers

13, 14

A	914	B	1,094	C	182
D	184	E	27	F	16