

Lowest Common Multiple

ANSWERS

1

Find the lowest common multiple of 2 and 5.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 2

2	4	6	8	10	12
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Multiples of 5

5	10	15	20
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LCM = 10

2

Find the lowest common multiple of 3 and 5.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 3

3	6	9	12	15	18
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Multiples of 5

5	10	15	20
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LCM = 15

3

Find the lowest common multiple of 4 and 10.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 4

4	8	12	16	20
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Multiples of 10

10	20
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LCM = 20

4

Find the lowest common multiple of 3 and 4.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 3

3	6	9	12	15	18
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Multiples of 4

4	8	12	16	20
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LCM = 12

5

Find the lowest common multiple of 6 and 9.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 6

6	12	18
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Multiples of 9

9	18
---	----

LCM = 18

6

Find the lowest common multiple of 3 and 6.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 3

3	6	9	12	15	18
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Multiples of 6

6	12	18
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LCM = 6

7

Cups come in boxes of 6.
Saucers come in boxes of 8.
Amy buys the same number of each.
What is the smallest number of cups she can buy?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Cups

6	12	18	24	30
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Saucers

8	16	24
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Cups = 24

8

Write down two common multiples of 4 and 6.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Multiples of 4

4	8	12	16	20	24
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Multiples of 6

6	12	18	24	30
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12 and 24

Lowest Common Multiple *further practice*

ANSWERS

9

Find the lowest common multiple of 8 and 10.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

Multiples of 8

8 16 24 32 40

Multiples of 10

10 20 30 40

LCM = 40

10

Find the lowest common multiple of 5 and 6.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Multiples of 5

5 10 15 20 25 30

Multiples of 6

6 12 18 24 30

LCM = 30

11

Find the lowest common multiple of 2, 3 and 4.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples of 2

2 4 6 8 10 12

Multiples of 3

3 6 9 12 15 18

Multiples of 4

4 8 12 16 20

LCM = 12

12

A red light flashes every 4 seconds.
A green light flashes every 5 seconds. They flash together now. When will they next flash together?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Red light 4 8 12 16 20

Green light 5 10 15 20

After 20 seconds

13

Find the lowest common multiple of 4 and 7.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

4, 8, 12, 16, 20, 24, 28

7, 14, 21, 28

LCM = 28

14

A red bus leaves every 5 minutes.
A blue bus leaves every 8 minutes.
They both leave at 9:00.
When do they next leave together?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

5, 10, 15, 20, 25, 30, 35, 40

8, 16, 24, 32, 40: 40 minutes

Answer 9:40

15

Ring the lowest common multiple of 4 and 8.

4	8	12	32						
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

8 is a multiple of 4 and of 8.

LCM = 8

16

Kim says the lowest common multiple of 6 and 10 is 60, because $6 \times 10 = 60$. Is Kim right?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Kim is not right because

30 is in both lists.

30 is smaller than 60.