1. You may use the incomplete multiplication table to help answer this question.

| × | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|----|----|----|
| 6 | 12 | (18) | 24 | 30 | (36) | 42 | 48 | (54) | 60 | 66 | (72) |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| 9 | (18) | 27 | (36) | 45 | (54) | 63 | (72) | 81 | 90 | 99 | 108 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

Hint: lowest means "smallest number"

Hint: common means "they share"

Common multiples of 6 and 9 are 18, 36, 54, ...

The lowest common multiple of 6 and 9 is 18

Find the lowest common multiple of 7 and 8

1. . . . . . . . . . . . .

2. The teacher used this method to find the lowest common multiple of 6 and 20

| | |
|---|---|
| • She wrote out the multiples of 6 | |

multiples of 6:   6   12   18   24   30   36   42   48   54   **60**

• She wrote out the multiples of 2, and some multiples of 20

multiples of 2:   2   4   6   8   10   12   14   16   18   20

multiples of 20:   20   40   **60**

• She only wrote out enough to find the lowest common multiple of 6 and 20 is 60

Find the lowest common multiple of 30 and 40


You may use these boxes to help

| multiples of 3: | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|
| multiples of 30: | 30 | 60 | | | | | | | | |

| multiples of 4: | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|
| multiples of 40: | 40 | | | | | | | | | |

2. . . . . . . . . . . . . .

3. The teacher used this method to find the lowest common multiple of 20 and 25

• She wrote out the multiples of 2 and some of the multiples of 20

| multiples of 2: | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| multiples of 20: | 20 | 40 | 60 | 80 | 100 | | | | | |

• She wrote out some multiples of 25, by adding 20 and then 5

multiples of 25:   25  $\xrightarrow{+20}$  45  $\xrightarrow{+5}$  50  $\xrightarrow{+20}$  70  $\xrightarrow{+5}$  75  $\xrightarrow{+20}$  95  $\xrightarrow{+5}$  100

• She only wrote out enough to find the lowest common multiple of 20 and 25 is 100

Find the lowest common multiple of 15 and 20

You may use these boxes to help

| multiples of 2: | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| multiples of 20: | 20 | 40 | | | | | | | | |

multiples of 15:   15  $\xrightarrow{+10}$  25  $\xrightarrow{+5}$  30  $\xrightarrow{+10}$  ...  $\xrightarrow{+5}$  ...

3. . . . . . . . . . . . .

4. You may use the incomplete multiplication table to help answer this question.

| × | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

Hint: lowest means "smallest number"

Hint: common means "they share"

Common multiples of 6 and 9 are 18, 36, 54, …

The lowest common multiple of 6 and 9 is 18

Find the lowest common multiple of 8 and 10

4. . . . . . . . . . . . .

Answers

1. 56

2. 120

3. 60

4. 40

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