MULTIPLES AND LCM

Give the LCM for each set of numbers. Try to use a variety of methods based on what makes the most sense for that given set of numbers.

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|---|---|
| 8 and 12<br>8, 16, 24<br>12, 24<br>LCM of 8 and 12 is 24 | 24 and 10<br>$24 = 2 \cdot 2 \cdot 2 \cdot 3$<br>$10 = 2 \cdot 5$<br>$2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 = 120$ |
| 15 and 24<br>$15 = 3 \cdot 5$<br>$24 = 3 \cdot 2 \cdot 2 \cdot 2$<br>$3 \cdot 5 \cdot 2 \cdot 2 \cdot 2 = 120$ | 4 and 16<br>4, 8, 12, 16<br>16<br>16 |
| 30 and 48<br>$30 = 2 \cdot 3 \cdot 5$<br>$48 = 2 \cdot 3 \cdot 2 \cdot 2 \cdot 2$<br>$2 \cdot 3 \cdot 5 \cdot 2 \cdot 2 \cdot 2 = 240$ | 12, 15, and 18<br>$12 = 2 \cdot 2 \cdot 3$<br>$15 = 3 \cdot 5$<br>$18 = 2 \cdot 3 \cdot 3$<br>$2 \cdot 2 \cdot 3 \cdot 5 \cdot 3 = 180$ |