

Warm-Up 1

31. The least common multiple (LCM) of 24 and 36 is 12, so Maya and Leo can make **12** gift bags with the candies they bring. Each bag will contain $24 \div 12 = 2$ of the chocolate candies that Maya brings and $36 \div 12 = 3$ of the peppermint candies that Leo brings.
32. Ms. Mulberry's classroom has $5 \times 7 = 35$ chairs. Since her class has 28 students, $35 - 28 = 7$ chairs will be left empty.
33. If 1 glump is worth 5 floops and 1 floop is worth 6 kimmis, then 1 glump is worth $5 \times 6 = 30$ kimmis, and 1.5 glumps is worth $1.5 \times 30 = 45$ kimmis.
34. The lowest score any of the team members obtained is $30 - 6 = 24$.
35. The value of $7 + 8 + 9 + \dots + 21$ can be found by pairing the first number with the last number, the second number with the second-to-last number, etc. In this way, we get multiple sums of 28. Since there are $21 - 6 = 15$ numbers in the sum, the middle number, 14, is not paired with another number. We can think about this as $15 \div 2 = 7.5$ sums of 28, which is $7.5 \times 28 = 210$.
36. The sum of the first six positive integers is $1 + 2 + 3 + 4 + 5 + 6 = 21$. The nearest perfect square less than 21 is 16. Since $21 - 16 = 5$, Ava must not have included **5** in the sum.
37. The value of the expression is $1^4 + 2^3 + 3^2 + 4^1 = 1 + 8 + 9 + 4 = 22$.
38. The distance of 7.5 km is $7.5 \div 3 = 2.5$ times as far as 3 km, so it will take Jennifer $2.5 \times 40 = 100$ min to walk that distance at the same rate.
39. The perimeter of the equilateral triangle is $3 \times 8 = 24$ cm. A square with the same perimeter would have a side length of $24 \div 4 = 6$ cm, so the area of the square is $6 \times 6 = 36$ cm².
40. Three cartons of 12 eggs is $3 \times 12 = 36$ eggs. Since each batch needs 8 eggs, the team can make $36 \div 8 = 4.5$ batches. That means they can make $4.5 \times 34 = 153$ crepes.