

Math 5e, Fall 2026 Homework 1

Homework #1 due September 28

Instructions:

- Homework must be written on separate sheets of paper, clearly writing the problem number you are solving and **showing all work, not only the final answer.**
- **Do not write answers on the page handout!** Please try to solve all problems and, if you did not solve a problem, explain your thinking in words.
- Submit on time—**at least 15 minutes before the start of the class**—so that the solutions can be opened to other students. Homework will not be accepted and graded after the solutions are opened.

1. Find the following sums

a) $1 + 2 + 3 + \cdots + 60$

b) $1 + 2 + 4 + \cdots + 60$

2. Is the number 23680 divisible by 2? By 3? By 4? By 6? By 9?

3. Find the LCM and GCD of 84 and 210.

4. If it is 7 a.m. now, what time of day will it be in 27 hours? 127 hours?

5. Compute:

a) $\frac{14}{7} + \frac{45}{11}$

b) $\frac{7}{10} - \frac{1}{2}$

6. Compare the fraction $\frac{11}{6}$ and $\frac{7}{4}$.

7. Mrs. Weatherby baked 175 cookies for a party. The children ate $\frac{4}{7}$ of the cookies. The adults ate 48 cookies. How many cookies were left?

8. There are 4 short stories in a book. The first story is 12 pages long, which is $\frac{2}{3}$ of the second story. The third story is $\frac{5}{6}$ of the length of the first two stories together. How long is the fourth story if the four stories together occupy 64 pages in the book?