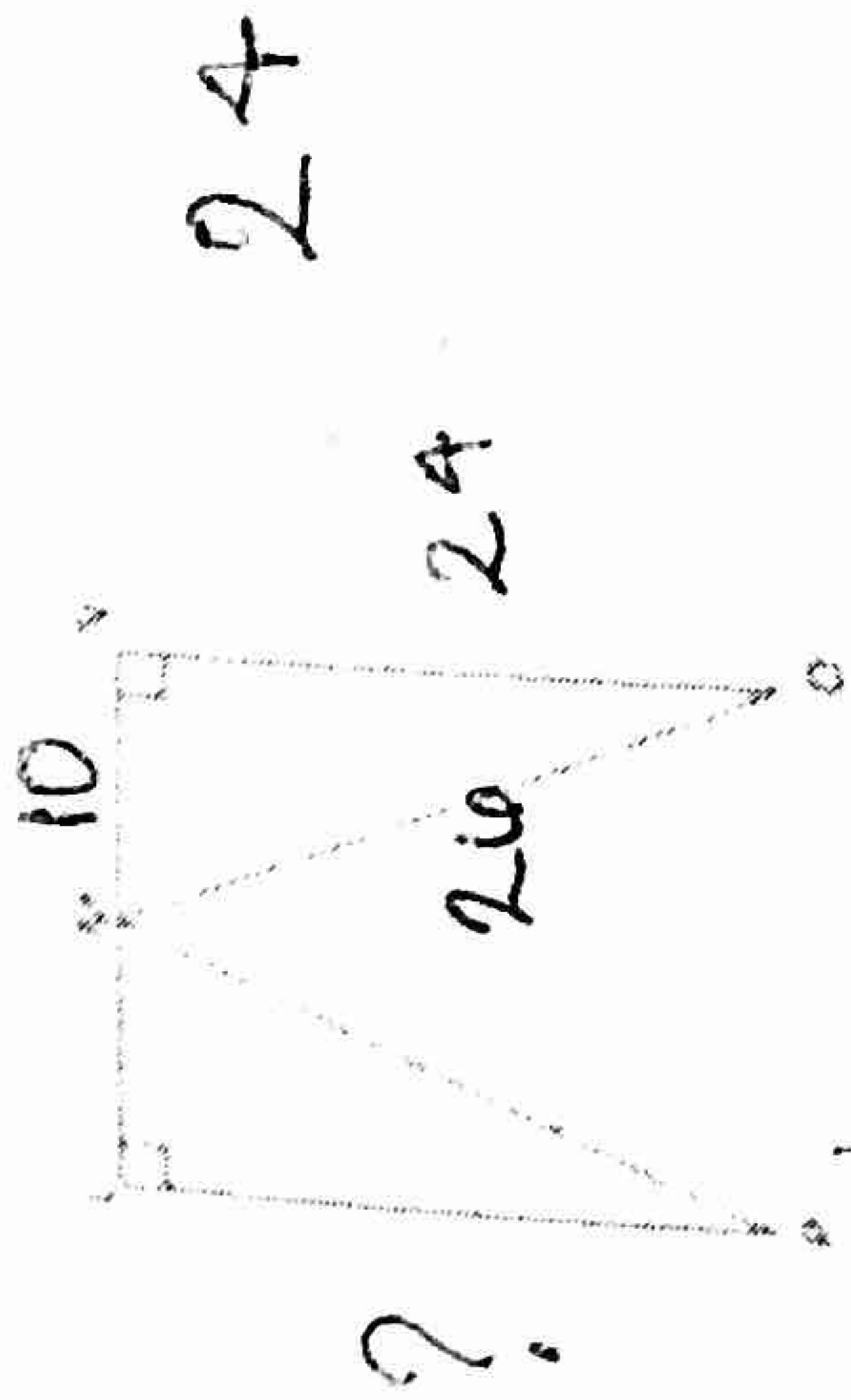
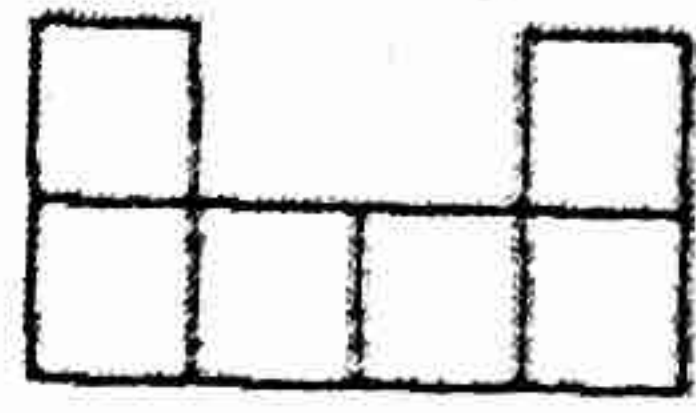
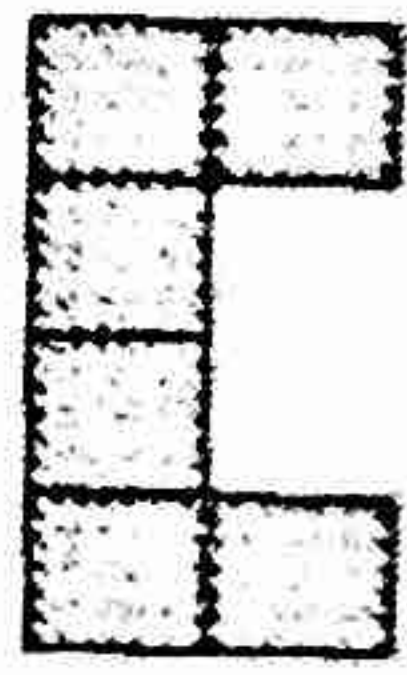


1. In the figure below, $\triangle MLP$ is congruent to $\triangle MNO$. If $MN = 10$, $NO = 24$, and $MO = 26$, what is the value of LP ?

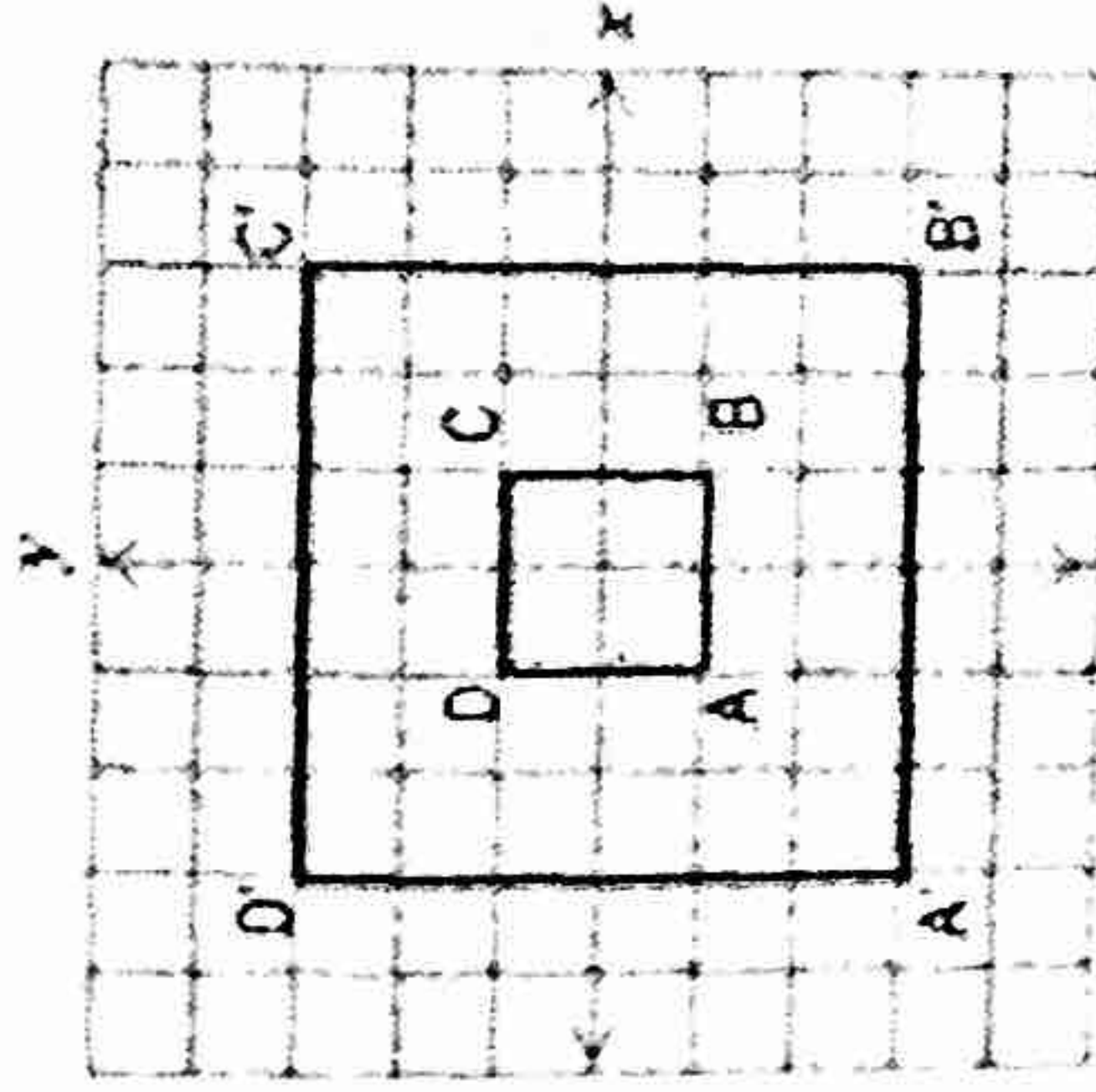


2. Which sequence of transformations shows the congruence from the pre-image (shaded) to the prime image (unshaded)?



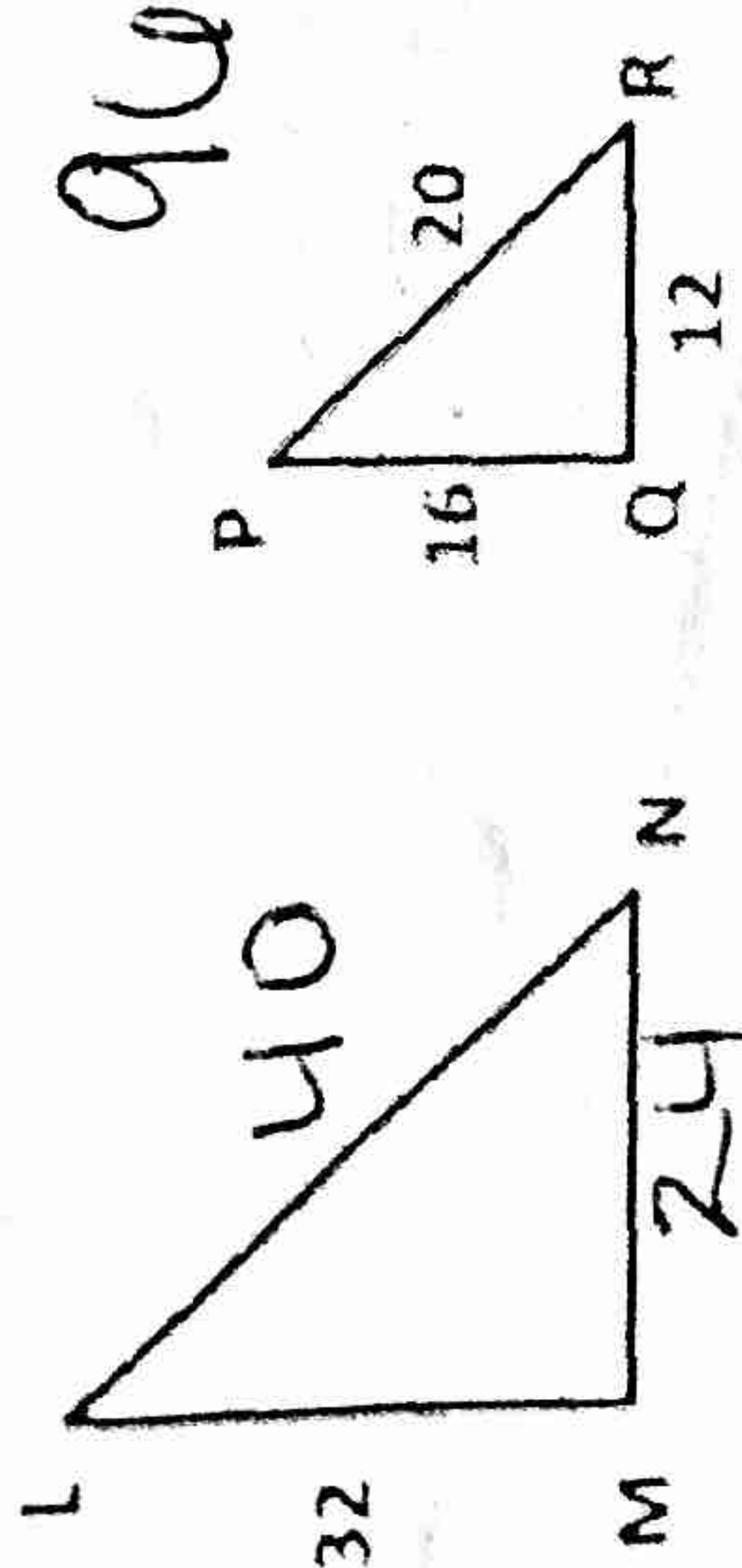
Rotation
90° clockwise

3. What is the scale factor of the dilation?



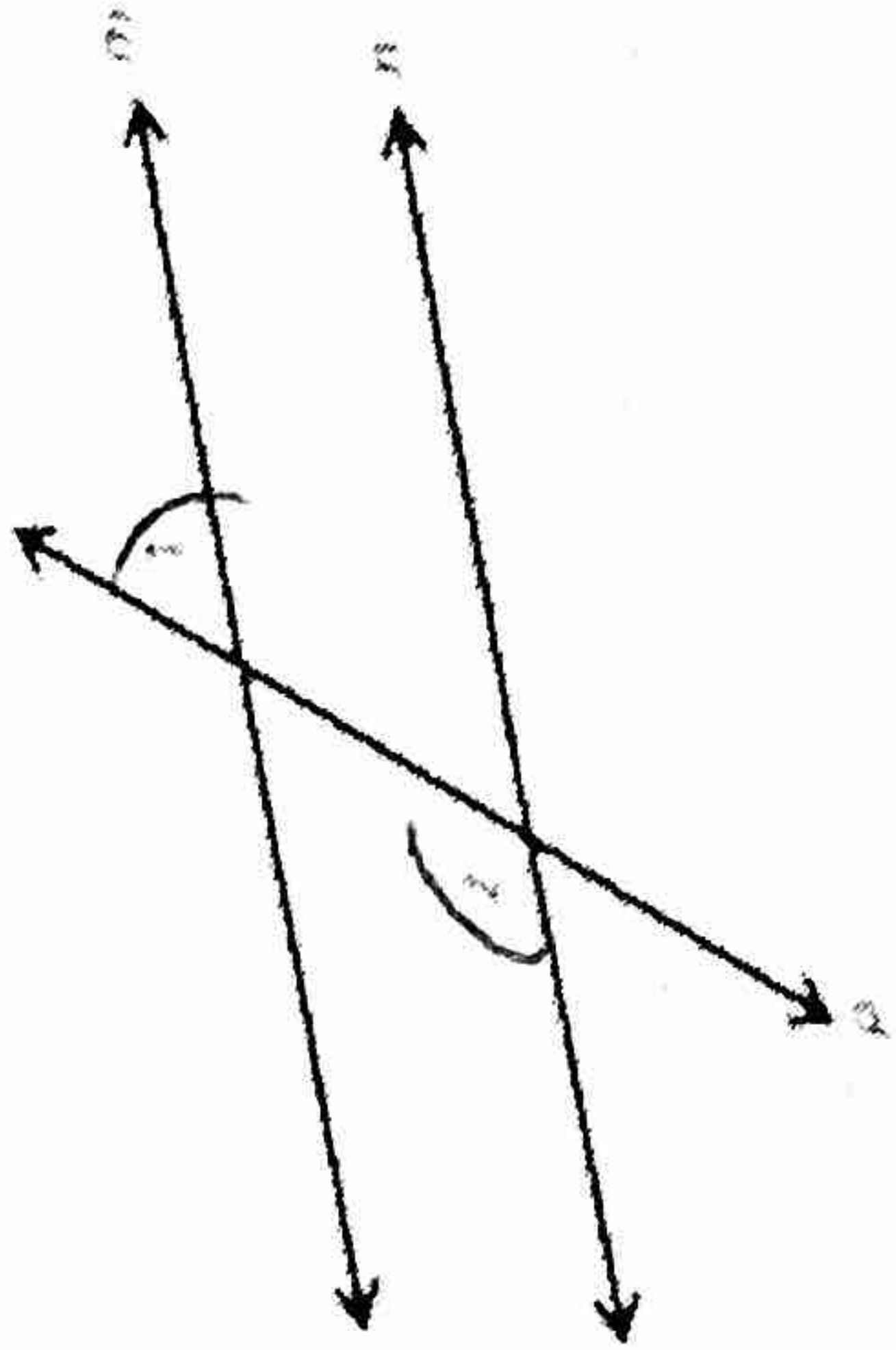
2

4. In the diagram, what is the perimeter of $\triangle LMN$?



96

5. Compare the angles formed when parallel lines m and n are intersected by line p . What is the relationship of angles 1 and 2?



Supplementary

6. Simplify: $(-6a^5b^4c^3)(5a^3b^2c)$

$$-30a^8b^6c^4$$

7. Evaluate the square root to find the rational equivalent:

$$\sqrt{\frac{36}{361}} = \frac{6}{19}$$

8. A blue whale has a mass of approximately 2×10^8 grams. A hippopotamus has a mass of approximately 2×10^6 grams. How many times larger is the mass of the blue whale than the mass of the hippopotamus?

$$\frac{200000000}{2000000} = 100 \text{ times larger}$$

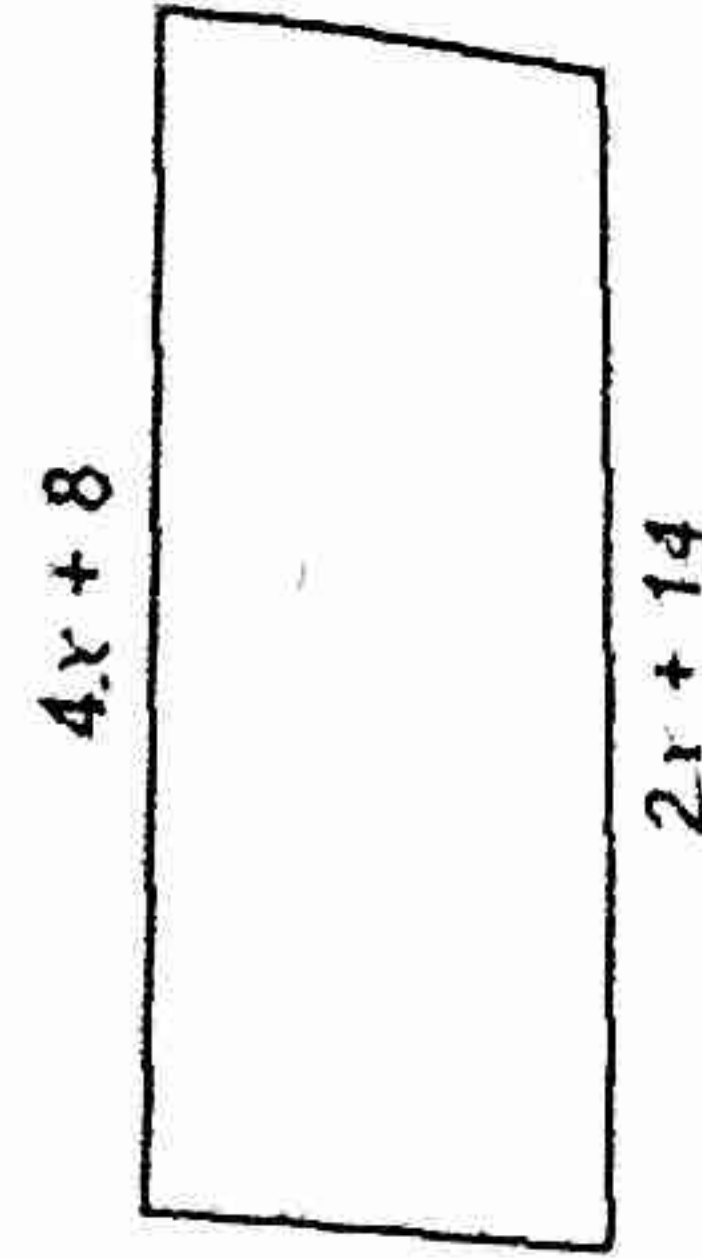
9. Solve: $(8.23 \times 10^3) + (6.15 \times 10^3)$

$$82.3 + 6.15 = 88.45 \times 10^3$$

10. Solve: $-12d - 6 = -2(d + 3) - 10d$

$$-12d - 6 = -2d - 6 - 10d$$

11. What is the value of x in the rectangle?



$$2x + 14 = 4x + 8$$

$$6 = 2x$$

$$x = 3$$

$$12d - 6 = -12d - 6$$

$$24d = 0$$

$$d = 0$$