

Unit 7: Rational Numbers

ADVANCED

Name: _____ Date: _____

Show all work and write each answer as an exact value (integer, fraction in lowest terms, decimal, or coordinate pair).

1. Compute and write the answer as a fraction in lowest terms: $-3/4 + 5/6$

Answer: _____

2. Compute: $-2.5 \times (-3.6)$

Answer: _____

3. Compute and write the answer as an integer or fraction in lowest terms: $(-4/5) \div (2/15)$

Answer: _____

4. Find the distance between -12.4 and 7.9 on a number line.

Answer: _____

5. Evaluate: $-8 + 15 - (-6) - 11$

Answer: _____

6. Compute and write the answer as a fraction in lowest terms: $(-2/3) \times (9/10) \times (-5/6)$

Answer: _____

7. The point $(-6, 4)$ is reflected across the x-axis. Give the coordinates of its image as an ordered pair.

Answer: _____

8. Evaluate: $(-1.2)^2 - 3.5$

Answer: _____

9. Compute and write the answer as a fraction in lowest terms: $-7/12 - (-5/8)$

Answer: _____

10. The temperature starts at -6.5°C , then drops 4.2°C , then rises 9.8°C . What is the final temperature in $^\circ\text{C}$?

Answer: _____

11. Evaluate: $(-3.6 \div 0.9) + (-2)^3$

Answer: _____

12. Find the midpoint (the number exactly halfway between) -4.5 and 3.25 on a number line.

Answer: _____