

Review: Order of operations and Operations with rational numbers**Simplify.**

1. $4 + 30 \cdot 5$

4. $[2 \cdot (10 + 7)] - 8$

2. $18 + 16 \cdot 5 \div 2 - 15$

5. $2 \left[(15 - 3)^2 \div 3 \right]$

3. $9 \times (8 + 7) + 5$

6. $3(2 + 18) \div (8 - 7)$

Find the sum.

7. $-1 + (-5) + (-9)$

9. $-1 + (-3)$

8. $-7 + 3$

10. $-9.1 + 3.6$

Simplify the product.

11. $6(-8)$

13. Find the quotient $-70 \div 7$.

12. $-8(-3)$

Find the sum or difference. Write your answer as a mixed number or a fraction in simplest form.

14. $\frac{2}{5} + \frac{1}{4}$

16. $\frac{7}{10} - \frac{1}{5}$

15. $\frac{1}{3} + \left(-\frac{3}{10}\right)$

17. $\frac{5}{6} - \left(-\frac{1}{9}\right)$

Find the product.

18. $\frac{2}{9} \cdot \left(-\frac{1}{2}\right)$

19. $-\frac{1}{3} \cdot \left(-\frac{4}{5}\right)$

Find the quotient.

20. $\frac{4}{5} \div \left(-\frac{5}{6}\right)$

21. $\frac{7}{8} \div \frac{1}{6}$