

Simplify.

4. $5 + (-8)$ 5. $-4 - 7$
 6. $-3 - (-6)$ 7. $6 \times (-2)$
 8. $(-5)(-3)$ 9. $-3 \times (-4)$
 10. $-21 + (-7)$ 11. $-9 + 3$
 12. $16 + (-2)$

Simplify.

13. $+12 - 13 - 7$
 14. $-3 - 4 - 5$
 15. $(-2)(-6) + (-4)$
 16. $30 + (-5) \times (-2)$
 17. $-4(-5) - 2$
 18. $-7 + (-1)(-6)$
 19. $(-2)^2 + 5$
 20. $-3^2 - 7$

Simplify.

25. $(-5)^2 - 4 + 5$
 26. $(-3)(-8) + (-6)$
 27. $-7 + 10 + (-5)$
 28. $5 \times (-2) - 8 \times 2$
 29. Evaluate for $s = -4$ and $t = -5$.
 a) $+s + 2t$
 b) $3t - s$
 c) $-2st + s^2 + t^2$
 d) $2s^2 + 3st - t^2$

Answers

4. -3 5. -11 6. 3 7. -12
 8. 15 9. 12 10. 3 11. -3 12. -8 13. -8 14. -12
 15. -3 16. 12 17. 18 18. -1 19. 9 20. -16 21. 4 22. 1
 23. -3 24. -18 25. 26 26. -4 27. -9 28. -26
 29. a) -26 b) -11 c) 1 d) 67

Rational Numbers

1) Simplify.

- a) $\frac{1}{2} \times \frac{8}{5}$ b) $(\frac{-2}{3})(\frac{6}{-7})$ c) $(\frac{-1}{4})(\frac{-2}{-3})$ d) $(\frac{-1}{-8})(\frac{1}{-21})$
 e) $(\frac{15}{-2})(\frac{-2}{45})$ f) $(\frac{-5}{12})(\frac{16}{-5})$ g) $(\frac{-7}{3})(\frac{-6}{5})$ h) $\frac{8}{3}(\frac{-9}{-4})$

2) Simplify.

- a) $\frac{1}{8} + \frac{1}{2}$ b) $(\frac{-7}{10}) + (\frac{4}{-9})$ c) $(\frac{5}{-8}) + (\frac{-3}{-4})$
 d) $(\frac{-1}{-5}) + (\frac{8}{-15})$ e) $(\frac{-8}{2}) + (\frac{-4}{3})$ f) $(\frac{-10}{-3}) + \frac{5}{4}$
 g) $\frac{5}{4} + (\frac{-5}{-2})$ h) $(\frac{-2}{-3}) + \frac{5}{7}$ i) $\frac{11}{6} + (\frac{-7}{-12})$

3) Simplify.

- a) $\frac{1}{4} + \frac{2}{3}$ b) $\frac{5}{7} - \frac{2}{5}$ c) $\frac{1}{8} - \frac{5}{6}$ d) $\frac{-5}{12} + (\frac{-3}{8})$
 e) $\frac{2}{-9} + \frac{5}{6}$ f) $-\frac{4}{5} - \frac{2}{3}$ g) $\frac{3}{-4} - (\frac{-2}{5})$ h) $-(\frac{-3}{8}) - (\frac{5}{-4})$

4) Simplify.

- a) $-\frac{2}{3} + (\frac{1}{-4})$ b) $-(\frac{-5}{6}) + \frac{3}{2}$ c) $(\frac{1}{-8}) - \frac{1}{4}$ d) $\frac{-5}{8} + (\frac{-1}{-6})$
 e) $-(\frac{2}{-3}) - \frac{3}{10}$ f) $\frac{3}{4} - (\frac{-5}{8})$ g) $\frac{9}{4} + (\frac{-7}{3})$ h) $\frac{-20}{6} - (\frac{-11}{-3})$

5) Simplify.

- a) $\frac{4}{5} \times [\frac{3}{8} + (\frac{7}{4})]$ b) $[\frac{-1}{7} - (\frac{-2}{2})] - (\frac{7}{3})$
 c) $(\frac{-6}{7}) + [\frac{1}{4} \times (\frac{-16}{7})]$ d) $[(\frac{-18}{5}) + \frac{27}{5}] - (\frac{-6}{11})$
 e) $[(\frac{-5}{9}) - \frac{7}{6}] \times \frac{9}{5}$ f) $(\frac{-4}{9}) + [(\frac{-1}{8}) + (\frac{-1}{1})]$

Vertical text on the right side of the page, possibly bleed-through or a separate column of answers.