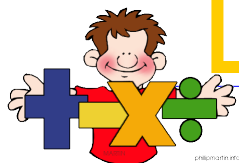


Math Connections



Math Course 3—Week 6 Answers

Exponents And Scientific Notation 8.2.1 - 8.2.4 Answers

Answers

- | | | | | |
|--|-------------------|--|------------|---------------------------------|
| 1. 5^6 | 2. x^7 | 3. 5^2 | 4. x^4 | 5. 5^9 |
| 6. x^{12} | 7. $256x^8y^{12}$ | 8. 5^5 | 9. 5^3 | 10. y^{-6} or $\frac{1}{y^6}$ |
| 11. $64a^6b^{-6}$ or $\frac{64a^6}{b^6}$ | 12. xy | 13. $\frac{x^8z^4}{y}$ or $x^8y^{-1}z^4$ | 14. $8x^5$ | 15. $\frac{1}{16}$ |
| 16. $\frac{1}{27}$ | 17. 6 | 18. $\frac{1}{9}$ | | |

Exponents And Scientific Notation 8.2.1 - 8.2.4 Answers

Answers

- | | | |
|--------------------------|---------------------------|----------------------------|
| 1. 785,000,000,000 | 2. 1,235,000,000 | 3. 1230.5 |
| 4. 0.000000389 | 5. 0.000528 | 6. 3.91×10^{11} |
| 7. 8.42×10^{-5} | 8. 1.230567×10^5 | 9. 5.02×10^{-7} |
| 10. 2.57×10^1 | 11. 3.5×10^{-2} | 12. 5.6×10^6 |
| 13. 1.3468×10^3 | 14. 6.0×10^{-12} | 15. 6.347×10^{14} |

Properties Of Angles, Lines, And Triangles 9.1.1 - 9.1.4 Answers

Answers

- | | | | | | |
|----------------|-----------------|--------------------------|------------------|-----------------|---------------------------|
| 1. 45° | 2. 35° | 3. 40° | 4. 34° | 5. 12.5° | 6. 15° |
| 7. 15° | 8. 25° | 9. 20° | 10. 5° | 11. 3° | 12. $10\frac{2}{3}^\circ$ |
| 13. 7° | 14. 2° | 15. 7° | 16. 25° | 17. 81° | 18. 7.5° |
| 19. 9° | 20. 7.5° | 21. 7° | 22. 15.6° | 23. 26° | 24. 2° |
| 25. 40° | 26. 65° | 27. $7\frac{1}{6}^\circ$ | 28. 10° | | |

Pythagorean Theorem 9.2.1 - 9.2.7 Answers

Answers

- | | | | | | |
|--------------|------------|------------|-------------|---------------|-------------|
| 1. 13 | 2. 11.31 | 3. 20 | 4. 8.66 | 5. 10 | 6. 17.32 |
| 7. 46.10 in. | 8. 8.94 m. | 9. 9.43 mi | 10. 4.47 cm | 11. 114.13 yd | 12. 2.92 ft |