

Problem Solving

Example 1

The factors of 12 are 1, 2, 3, 4, 6, and 12.

The factors of 15 are 1, 3, 5, and 15.

The factors of 18 are 1, 2, 3, 6, 9, and 18.

The factors of 20 are 1, 2, 4, 5, 10, and 20.

The factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24.

The factors of 30 are 1, 2, 3, 5, 6, 10, 15, and 30.

The factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, and 36.

The factors of 40 are 1, 2, 4, 5, 8, 10, 20, and 40.

The factors of 45 are 1, 3, 5, 9, 15, and 45.

The factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24, and 48.

The factors of 50 are 1, 2, 5, 10, 25, and 50.

The factors of 54 are 1, 2, 3, 6, 9, 18, 27, and 54.

The factors of 60 are 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, and 60.

The factors of 63 are 1, 3, 7, 9, 21, and 63.

The factors of 64 are 1, 2, 4, 8, 16, 32, and 64.

The factors of 70 are 1, 2, 5, 7, 14, and 70.

The factors of 72 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, and 72.

The factors of 75 are 1, 3, 5, 15, and 75.

The factors of 80 are 1, 2, 4, 5, 8, 10, 16, 20, 40, and 80.

The factors of 81 are 1, 3, 9, 27, and 81.

The factors of 84 are 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, and 84.

The factors of 90 are 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, and 90.

The factors of 96 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, and 96.

The factors of 100 are 1, 2, 4, 5, 10, 20, 25, 50, and 100.

The factors of 105 are 1, 3, 5, 7, 15, 21, 35, and 105.

The factors of 108 are 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, and 108.

The factors of 110 are 1, 2, 5, 11, 22, and 110.

The factors of 112 are 1, 2, 4, 7, 8, 14, 16, 28, 56, and 112.

The factors of 117 are 1, 3, 9, 13, 39, and 117.

The factors of 120 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, and 120.

The factors of 125 are 1, 5, 25, and 125.

The factors of 126 are 1, 2, 3, 6, 7, 9, 14, 18, 21, 42, 63, and 126.

The factors of 128 are 1, 2, 4, 8, 16, 32, 64, and 128.

The factors of 130 are 1, 2, 5, 10, 13, 26, and 130.

The factors of 132 are 1, 2, 3, 4, 6, 11, 22, 33, 44, 66, and 132.

The factors of 135 are 1, 3, 5, 9, 27, and 135.

The factors of 140 are 1, 2, 4, 5, 7, 10, 14, 20, 28, 35, 70, and 140.

The factors of 144 are 1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, and 144.

The factors of 147 are 1, 3, 7, 21, and 147.

The factors of 150 are 1, 2, 3, 5, 6, 10, 15, 25, 30, 50, and 150.

The factors of 156 are 1, 2, 3, 4, 6, 12, 13, 26, 39, 52, 78, and 156.

The factors of 160 are 1, 2, 4, 5, 8, 10, 16, 20, 32, 40, 80, and 160.

The factors of 162 are 1, 2, 3, 6, 9, 18, 27, 54, and 162.

The factors of 165 are 1, 3, 5, 11, 33, and 165.

The factors of 168 are 1, 2, 3, 4, 6, 7, 8, 12, 14, 21, 24, 28, 42, 56, 84, and 168.

The factors of 170 are 1, 2, 5, 10, 17, 34, and 170.

The factors of 171 are 1, 3, 9, 19, 57, and 171.

The factors of 175 are 1, 5, 7, 25, 35, and 175.

The factors of 176 are 1, 2, 4, 8, 11, 16, 22, 44, 88, and 176.

The factors of 180 are 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 36, 45, 60, 90, and 180.

The factors of 182 are 1, 2, 7, 13, 14, 26, 91, and 182.

The factors of 184 are 1, 2, 4, 8, 23, 46, 92, and 184.

The factors of 186 are 1, 2, 3, 6, 31, 62, and 186.

The factors of 189 are 1, 3, 7, 9, 27, 63, and 189.

The factors of 190 are 1, 2, 5, 10, 19, 38, 95, and 190.

The factors of 192 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96, and 192.

The factors of 195 are 1, 3, 5, 13, 39, and 195.

The factors of 196 are 1, 2, 4, 7, 14, 49, 98, and 196.

The factors of 198 are 1, 2, 3, 6, 9, 11, 18, 22, 33, 66, 99, and 198.

The factors of 200 are 1, 2, 4, 5, 8, 10, 20, 25, 40, 50, 100, and 200.

The factors of 201 are 1, 3, 67, and 201.

The factors of 202 are 1, 2, 101, and 202.

The factors of 203 are 1, 7, 29, and 203.

The factors of 204 are 1, 2, 3, 4, 6, 17, 34, 51, 68, 102, and 204.

The factors of 205 are 1, 5, 41, and 205.

The factors of 206 are 1, 2, 103, and 206.

The factors of 207 are 1, 3, 9, 23, 69, and 207.

The factors of 208 are 1, 2, 4, 8, 13, 16, 26, 52, 104, and 208.

The factors of 210 are 1, 2, 3, 5, 6, 7, 10, 14, 15, 21, 30, 35, 42, 70, 105, and 210.

The factors of 212 are 1, 2, 4, 53, 106, and 212.

The factors of 213 are 1, 3, 71, and 213.

The factors of 214 are 1, 2, 107, and 214.

The factors of 215 are 1, 5, 43, and 215.

The factors of 216 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 27, 36, 54, 72, 108, and 216.

The factors of 217 are 1, 7, 31, and 217.

The factors of 218 are 1, 2, 109, and 218.

The factors of 219 are 1, 3, 73, and 219.

The factors of 220 are 1, 2, 4, 5, 10, 11, 20, 22, 44, 55, 110, and 220.

The factors of 221 are 1, 13, 17, and 221.

The factors of 222 are 1, 2, 3, 6, 37, 74, 111, and 222.

The factors of 223 are 1, 223, and 223.

The factors of 224 are 1, 2, 4, 7, 8, 14, 16, 28, 56, 112, and 224.

The factors of 225 are 1, 3, 5, 9, 15, 25, 45, 75, 225, and 225.

The factors of 226 are 1, 2, 113, and 226.

The factors of 227 are 1, 227, and 227.

The factors of 228 are 1, 2, 3, 4, 6, 12, 19, 38, 57, 76, 114, 152, and 228.

The factors of 229 are 1, 229, and 229.

The factors of 230 are 1, 2, 5, 10, 23, 46, 115, and 230.

The factors of 231 are 1, 3, 7, 11, 21, 33, 77, and 231.

The factors of 232 are 1, 2, 4, 8, 29, 58, 116, and 232.

The factors of 233 are 1, 233, and 233.

The factors of 234 are 1, 2, 3, 6, 9, 13, 18, 26, 27, 39, 54, 78, 117, 162, and 234.

The factors of 235 are 1, 5, 47, and 235.

The factors of 236 are 1, 2, 4, 59, 118, and 236.

The factors of 237 are 1, 3, 79, and 237.

The factors of 238 are 1, 2, 7, 14, 17, 34, 119, and 238.

The factors of 239 are 1, 239, and 239.

The factors of 240 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 30, 40, 48, 60, 80, 120, and 240.

The factors of 241 are 1, 241, and 241.

The factors of 242 are 1, 2, 11, 22, 121, and 242.

The factors of 243 are 1, 3, 9, 27, 81, and 243.

The factors of 244 are 1, 2, 4, 61, 122, and 244.

The factors of 245 are 1, 5, 7, 35, 49, 175, and 245.

The factors of 246 are 1, 2, 3, 6, 41, 82, 123, and 246.

The factors of 247 are 1, 13, 19, and 247.

The factors of 248 are 1, 2, 4, 8, 31, 62, 124, and 248.

The factors of 249 are 1, 3, 83, and 249.

The factors of 250 are 1, 2, 5, 10, 25, 50, 125, and 250.

The factors of 251 are 1, 251, and 251.

The factors of 252 are 1, 2, 3, 4, 6, 7, 9, 12, 14, 18, 21, 28, 36, 42, 63, 84, 126, 182, and 252.

The factors of 253 are 1, 11, 23, and 253.

The factors of 254 are 1, 2, 127, and 254.

The factors of 255 are 1, 3, 5, 15, 17, 51, 85, 255, and 255.

The factors of 256 are 1, 2, 4, 8, 16, 32, 64, 128, and 256.

The factors of 257 are 1, 257, and 257.

The factors of 258 are 1, 2, 3, 6, 43, 86, 129, and 258.

The factors of 259 are 1, 7, 37, and 259.

The factors of 260 are 1, 2, 4, 5, 10, 13, 20, 26, 52, 65, 130, and 260.

The factors of 261 are 1, 3, 9, 29, 87, and 261.

The factors of 262 are 1, 2, 131, and 262.

The factors of 263 are 1, 263, and 263.

The factors of 264 are 1, 2, 3, 4, 6, 8, 11, 12, 16, 22, 24, 33, 44, 66, 88, 132, 176, 264, and 264.

The factors of 265 are 1, 5, 53, and 265.

The factors of 266 are 1, 2, 7, 14, 19, 38, 133, and 266.

The factors of 267 are 1, 3, 89, and 267.

The factors of 268 are 1, 2, 4, 67, 134, and 268.

The factors of 269 are 1, 269, and 269.

The factors of 270 are 1, 2, 3, 5, 6, 9, 10, 15, 18, 27, 30, 54, 90, 135, 270, and 270.

The factors of 271 are 1, 271, and 271.

The factors of 272 are 1, 2, 4, 8, 17, 34, 68, 136, and 272.

The factors of 273 are 1, 3, 7, 13, 21, 39, 91, and 273.

The factors of 274 are 1, 2, 137, and 274.

The factors of 275 are 1, 5, 11, 25, 55, 275, and 275.

The factors of 276 are 1, 2, 3, 4, 6, 12, 23, 46, 69, 92, 138, 184, 276, and 276.

The factors of 277 are 1, 277, and 277.

The factors of 278 are 1, 2, 139, and 278.

The factors of 279 are 1, 3, 9, 31, 93, and 279.

The factors of 280 are 1, 2, 4, 5, 7, 8, 10, 14, 16, 20, 28, 35, 40, 56, 70, 140, 280, and 280.

The factors of 281 are 1, 281, and 281.

The factors of 282 are 1, 2, 3, 6, 47, 94, 141, and 282.

The factors of 283 are 1, 283, and 283.

The factors of 284 are 1, 2, 4, 71, 142, and 284.

The factors of 285 are 1, 3, 5, 15, 19, 57, 95, 285, and 285.

The factors of 286 are 1, 2, 11, 13, 22, 26, 143, and 286.

The factors of 287 are 1, 7, 41, and 287.

The factors of 288 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36, 48, 64, 72, 96, 144, 192, 288, and 288.

The factors of 289 are 1, 17, 17, and 289.

The factors of 290 are 1, 2, 5, 10, 29, 58, 145, and 290.

The factors of 291 are 1, 3, 97, and 291.

The factors of 292 are 1, 2, 4, 73, 146, and 292.

The factors of 293 are 1, 293, and 293.

The factors of 294 are 1, 2, 3, 6, 7, 14, 21, 42, 49, 98, 147, 196, 294, and 294.

The factors of 295 are 1, 5, 59, and 295.

The factors of 296 are 1, 2, 4, 74, 148, and 296.

The factors of 297 are 1, 3, 9, 27, 81, and 297.

The factors of 298 are 1, 2, 149, and 298.

The factors of 299 are 1, 13, 23, and 299.

The factors of 300 are 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 25, 30, 40, 60, 75, 100, 150, 300, and 300.

28. $120 = 2 \times 2 \times 2 \times 3 \times 5$
 product of factors
 $2 \times 2 = 4$ $2 \times 2 = 4$
 $4 \times 3 = 12$
 $12 \times 5 = 60$
 $60 \times 2 = 120$
 The factors of 120 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, and 120.
29. $36^2 = 2^2 \times 3^2 \times 3^2 \times 3^2$
 product of factors
 $2 \times 2 = 4$ $3 \times 3 = 9$
 $9 \times 9 = 81$
 $81 \times 4 = 324$
 $324 \times 9 = 2916$
 The factors of 36^2 are 1, 2, 3, 4, 6, 9, 12, 18, 36, 54, 81, 108, 162, 216, 324, 648, 972, 1296, 1944, and 2916.
30. $100 = 2^2 \times 5^2$
 product of factors
 $2 \times 2 = 4$ $5 \times 5 = 25$
 $4 \times 25 = 100$
 $2 \times 50 = 100$
 $5 \times 20 = 100$
 $10 \times 10 = 100$
 The factors of 100 are 1, 2, 4, 5, 10, 20, 25, 50, and 100.
31. $100 = 2^2 \times 5^2$
 product of factors
 $2 \times 2 = 4$ $5 \times 5 = 25$
 $4 \times 25 = 100$
 $2 \times 50 = 100$
 $5 \times 20 = 100$
 $10 \times 10 = 100$
 The factors of 100 are 1, 2, 4, 5, 10, 20, 25, 50, and 100.
32. a. Write 102 as a product of 2 numbers
 1×102 2×51 3×34 6×17
 Possible arrangements:
 1 row of 102 photographs
 102 rows of 1 photograph
 2 rows of 51 photographs
 51 rows of 2 photographs
 3 rows of 34 photographs
 34 rows of 3 photographs
 6 rows of 17 photographs
 17 rows of 6 photographs
 There are 8 possible arrangements.
- b. There are no rectangular arrangements for 17 photographs in any row or column.

—CONTINUED—

33. —CONTINUED—
 a. Write 96 as a product of 2 numbers
 1×96 2×48 3×32 4×24
 6×16 8×12
 Possible arrangements:
 4 rows of 24 photographs
 12 rows of 8 photographs
 There are 10 possible arrangements.
34. Write 144 as a product of 2 numbers
 4×36 36×4
 6×24 24×6
 8×18 18×8
 9×16 16×9
 Compare: The numbers in the prime factorization of a perfect square are even integers.
35. The perfect number between 50 and 70 is
 $28 = 2 \times 2 \times 7 = 28$
36. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
37. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
38. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
39. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
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98. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
99. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.
100. The factors of 18 are 1, 2, 3, 6, 9, and 18. No other factors of 18 are factors of 18.

4.1 Mixed Review (p. 178)

75. $x + 24 = 54$ 76. $51 + x = 58$
 $x + 24 = 54 - 24$ $51 + x = 58 - 51$
 $x = 30$ $x = 7$
 Check: $x + 24 = 54$ Check: $51 + x = 58$
 $30 + 24 = 54$ $51 + 7 = 58$
 $54 = 54$ $58 = 58$ ✓
77. $x + 16 = 35$ 78. $d - 10 = 20$
 $x + 16 = 35 - 16$ $d - 10 = 20 + 10$
 $x = 19$ $d = 30$
 Check: $x + 16 = 35$ Check: $d - 10 = 20$
 $19 + 16 = 35$ $30 - 10 = 20$
 $35 = 35$ ✓ $20 = 20$ ✓
79. $5x = 45$ 80. $-3x = 30$
 $\frac{5x}{5} = \frac{45}{5}$ $\frac{-3x}{-3} = \frac{30}{-3}$
 $x = 9$ $x = -10$
 Check: $5x = 45$ Check: $-3x = 30$
 $5 \cdot 9 = 45$ $-3 \cdot (-10) = 30$
 $45 = 45$ ✓ $30 = 30$ ✓

81. $\frac{1}{2}x = 12$ 82. $\frac{1}{3}x = 18$
 $x = 12 \times 2$ $x = 18 \times 3$
 $x = 24$ $x = 54$
 Check: $\frac{1}{2}x = 12$ Check: $\frac{1}{3}x = 18$
 $\frac{1}{2} \cdot 24 = 12$ $\frac{1}{3$

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AN Whitehead



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Table of Contents Algebra Workbook Answer Key Holt Mcdougal

1. Understanding the eBook Algebra Workbook Answer Key Holt Mcdougal
 - The Rise of Digital Reading Algebra Workbook Answer Key Holt Mcdougal
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Workbook Answer Key Holt Mcdougal
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra Workbook Answer Key Holt Mcdougal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Workbook Answer Key Holt Mcdougal
 - Personalized Recommendations

- Algebra Workbook Answer Key Holt Mcdougal User Reviews and Ratings
- Algebra Workbook Answer Key Holt Mcdougal and Bestseller Lists
- 5. Accessing Algebra Workbook Answer Key Holt Mcdougal Free and Paid eBooks
 - Algebra Workbook Answer Key Holt Mcdougal Public Domain eBooks
 - Algebra Workbook Answer Key Holt Mcdougal eBook Subscription Services
 - Algebra Workbook Answer Key Holt Mcdougal Budget-Friendly Options
- 6. Navigating Algebra Workbook Answer Key Holt Mcdougal eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Workbook Answer Key Holt Mcdougal Compatibility with Devices
 - Algebra Workbook Answer Key Holt Mcdougal Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Workbook Answer Key Holt Mcdougal
 - Highlighting and Note-Taking Algebra Workbook Answer Key Holt Mcdougal
 - Interactive Elements Algebra Workbook Answer Key Holt Mcdougal
- 8. Staying Engaged with Algebra Workbook Answer Key Holt Mcdougal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Workbook Answer Key Holt Mcdougal
- 9. Balancing eBooks and Physical Books Algebra Workbook Answer Key Holt Mcdougal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Workbook Answer Key Holt Mcdougal
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra Workbook Answer Key Holt Mcdougal
 - Setting Reading Goals Algebra Workbook Answer Key Holt Mcdougal
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra Workbook Answer Key Holt Mcdougal
 - Fact-Checking eBook Content of Algebra Workbook Answer Key Holt Mcdougal

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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