ELEMENTARY MATH MASTERY GUIDE

Grades 4-6

Global Sovereign University

"Building a Bridge to Freedom Through Education—Not Handouts"

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INTRODUCTION

Welcome to Elementary Math Mastery!

This guide is designed by Global Sovereign University to help students in grades 4-6 master the four fundamental operations of arithmetic: addition, subtraction, multiplication, and division.

Our Philosophy: At GSU, we believe that everyone can learn mathematics with the right approach. This guide doesn't just give you problems to solve—it teaches you HOW to think about math and WHY the methods work.

How to Use This Guide

Step 1: Read the Concept Review Before starting problems, read the explanation of each operation. Understanding the "why" makes the "how" much easier.

Step 2: Start with Bronze Level Begin with Bronze problems to build confidence. Don't skip ahead! Mastery comes from solid foundations.

Step 3: Progress Through Silver and Gold As Bronze problems become easy, move to Silver, then Gold. Each level adds complexity.

Step 4: Check Your Work Use the complete answer key in the back. Don't just check if you're right—study HOW to get the right answer.

Step 5: Track Your Progress Use the Progress Tracker on page 40 to earn your achievement badges!

Achievement Levels Explained

BRONZE LEVEL - Building Foundations

Basic problems with smaller numbers
Focus on understanding the operation

Goal: 80% accuracy before moving up

SILVER LEVEL - Developing Skills

Larger numbers and multi-step problems

Requires more mental math

Goal: 80% accuracy before moving up

GOLD LEVEL - Mastering Excellence

Complex problems and word problems

Real-world applications

Goal: 80% accuracy = MASTERY!

Study Tips for Success

1. **Practice 20 minutes daily** - Short, consistent practice beats long, occasional cramming
2. **Work without a calculator** - Build your mental math muscles
3. **Show your work** - Writing steps helps you catch mistakes
4. **Ask for help** - No question is too simple
5. **Celebrate progress** - Every problem solved is growth!

Remember: Mistakes are proof that you're learning. Every wrong answer teaches you something valuable.

SECTION 1: ADDITION

Understanding Addition

What is Addition? Addition means combining two or more numbers to find their total. When you add, you're finding out "how many altogether?"

Key Vocabulary:

Addends - The numbers being added (e.g., in 5 + 3, both 5 and 3 are addends)

Sum - The answer when you add (e.g., 5 + 3 = 8, where 8 is the sum)

Plus sign (+) - The symbol that means "add"

The Commutative Property: You can add numbers in any order and get the same answer: 5 + 3 = 8 is the same as 3 + 5 = 8

Mental Math Strategies:

1. **Making Tens** 27 + 8 = ? Think: 27 + 3 = 30, then 30 + 5 = 35
2. **Breaking Apart Numbers** 45 + 37 = ? Think: 45 + 30 = 75, then 75 + 7 = 82
3. **Adding Up** For problems like 48 + 26:

   Start with the larger number (48)

   Add tens first: 48 + 20 = 68

   Then add ones: 68 + 6 = 74

When to Regroup (Carry): Sometimes when you add, the ones place adds up to more than 9. When this happens, you "carry" the ten to the tens place.

Example:

```
 47
+ 36
------
```

Ones place: 7 + 6 = 13 (write 3, carry 1)

Tens place: 4 + 3 + 1(carried) = 8

Answer: 83

BRONZE LEVEL - ADDITION

Basic problems to build confidence

Problems 1-20: Two-digit addition (no regrouping)

1. 23 + 45 = _____
2. 31 + 57 = _____
3. 42 + 36 = _____
4. 54 + 24 = _____
5. 61 + 18 = _____
6. 33 + 52 = _____
7. 72 + 15 = _____
8. 41 + 47 = _____
9. 50 + 39 = _____
10. 62 + 27 = _____
11. 34 + 44 = _____
12. 51 + 28 = _____
13. 43 + 35 = _____
14. 64 + 23 = _____

15. 71 + 16 = _____

16. 82 + 17 = _____

17. 53 + 26 = _____

18. 32 + 46 = _____

19. 44 + 54 = _____

20. 65 + 33 = _____

Problems 21-40: Two-digit addition (with regrouping)

21. 28 + 35 = _____

22. 47 + 38 = _____

23. 56 + 27 = _____

24. 39 + 44 = _____

25. 68 + 26 = _____

26. 49 + 37 = _____

27. 77 + 18 = _____

28. 58 + 35 = _____

29. 89 + 24 = _____

30. 46 + 48 = _____

31. 29 + 56 = _____

32. 67 + 28 = _____

33. 48 + 47 = _____

34. 79 + 15 = _____

35. 38 + 55 = _____

36. 59 + 36 = _____

37. 88 + 17 = _____

38. 69 + 25 = _____

39. 37 + 58 = _____

40. 76 + 19 = _____

SILVER LEVEL - ADDITION

Developing your skills with larger numbers

Problems 41-60: Three-digit addition

41. 234 + 152 = _____

42. 346 + 428 = _____

43. 567 + 218 = _____

44. 482 + 359 = _____

45. 675 + 247 = _____

46. 398 + 456 = _____

47. 529 + 384 = _____

48. 746 + 198 = _____

49. 854 + 267 = _____

50. 639 + 475 = _____

51. 427 + 586 = _____

52. 768 + 349 = _____

53. 583 + 628 = _____

54. 925 + 387 = _____

55. 458 + 765 = _____

56. 697 + 428 = _____

57. 834 + 579 = _____

58. 546 + 688 = _____

59. 729 + 495 = _____

60. 877 + 346 = _____

Problems 61-70: Adding three numbers

61. 45 + 23 + 18 = _____

62. 67 + 34 + 52 = _____

63. 89 + 46 + 27 = _____

64. 53 + 78 + 35 = _____

65. 92 + 58 + 41 = _____

66. 38 + 65 + 79 = _____

67. 74 + 49 + 83 = _____

68. 56 + 87 + 64 = _____

69. 81 + 39 + 72 = _____

70. 95 + 47 + 68 = _____

GOLD LEVEL - ADDITION

Mastering excellence with complex problems

Problems 71-80: Four-digit addition

71. 2,547 + 1,384 = _____

72. 3,829 + 2,756 = _____

73. 4,673 + 3,948 = _____

74. 5,298 + 4,567 = _____

75. 6,845 + 2,379 = _____

76. 7,436 + 5,688 = _____

77. 8,592 + 3,749 = _____

78. 9,167 + 4,856 = _____

79. 6,734 + 7,489 = _____

80. 8,925 + 6,397 = _____

Problems 81-90: Word Problems

81. Maria has 245 marbles. Her friend gives her 178 more. How many marbles does Maria have now?
82. A school library has 536 books on the first floor and 429 books on the second floor. How many books does the library have in total?
83. During a fundraiser, Class A raised $387 and Class B raised $465. How much money did they raise together?
84. A farmer harvested 1,248 apples in the morning and 1,576 apples in the afternoon. How many apples did he harvest in total?
85. The attendance at a baseball game was 3,459 on Friday and 4,782 on Saturday. What was the total attendance for both days?
86. Emma walks 1,250 steps to school, 800 steps during recess, and 1,250 steps home. How many total steps does she walk?
87. A bookstore sold 428 books in January, 567 books in February, and 395 books in March. How many books were sold in those three months?
88. Three friends are collecting cans for recycling. Alex collected 2,345 cans, Bella collected 1,897 cans, and Carlos collected 3,124 cans. How many cans did they collect altogether?
89. A theater has 1,845 seats on the main floor and 967 seats in the balcony. If all seats are filled, how many people are watching the show?
90. A bakery made 456 cookies in the morning, 523 cookies at noon, and 389 cookies in the afternoon. How many cookies did they make in total?

SECTION 2: SUBTRACTION

Understanding Subtraction

What is Subtraction? Subtraction means taking away or finding the difference between two numbers. When you subtract, you're finding out "how many are left?" or "how much more?"

Key Vocabulary:

Minuend - The number you start with (e.g., in 9 - 4, the 9 is the minuend)

Subtrahend - The number being taken away (e.g., in 9 - 4, the 4 is the subtrahend)

Difference - The answer when you subtract (e.g., 9 - 4 = 5, where 5 is the difference)

Minus sign (-)—The symbol that means "subtract"

Mental Math Strategies:

1. **Counting Up** For 63 - 48, think: "What do I add to 48 to get 63?" 48 + 2 = 50, then 50 + 13 = 63 So the answer is 2 + 13 = 15
2. **Adding to Make a Friendly Number** For 52 - 29: Think: 29 + 1 = 30 (a friendly number) Then: 52 - 30 = 22 Finally: 22 + 1 = 23
3. **Breaking Apart Numbers** For 85 - 37:

   Subtract tens: 85 - 30 = 55

   Subtract ones: 55 - 7 = 48

When to Regroup (Borrow): Sometimes you need to "borrow" from the next place value when the top digit is smaller than the bottom digit.

Example:

```
 52
 - 28
------
```

Can't do 2 - 8, so borrow: 4 12 - 2 8

Ones place: 12 - 8 = 4

Tens place: 4 - 2 = 2

Answer: 24

Checking Your Work: You can check subtraction by adding! If 52 - 28 = 24, then 24 + 28 should equal 52.

BRONZE LEVEL - SUBTRACTION

Basic problems to build confidence

Problems 91-110: Two-digit subtraction (no regrouping)

91. 89 - 43 = _____

92. 76 - 54 = _____

93. 98 - 35 = _____

94. 67 - 42 = _____

95. 85 - 61 = _____

96. 79 - 38 = _____

97. 96 - 53 = _____

98. 88 - 47 = _____

99. 77 - 25 = _____

100. 94 - 72 = _____

101. 86 - 34 = _____

102. 97 - 66 = _____

103. 78 - 45 = _____

104. 69 - 37 = _____

105. 95 - 52 = _____

106. 87 - 63 = _____

107. 99 - 48 = _____

108. 74 - 31 = _____

109. 83 - 51 = _____

110. 92 - 60 = _____

Problems 111-130: Two-digit subtraction (with regrouping)

111. 52 - 28 = _____

112. 73 - 47 = _____

113. 64 - 39 = _____

114. 81 - 56 = _____

115. 95 - 68 = _____

116. 42 - 27 = _____

117. 76 - 49 = _____

118. 53 - 38 = _____

119. 87 - 59 = _____

120. 91 - 66 = _____

121. 62 - 45 = _____

122. 84 - 57 = _____

123. 71 - 48 = _____

124. 93 - 76 = _____

125. 55 - 29 = _____

126. 86 - 68 = _____

127. 74 - 47 = _____

128. 92 - 65 = _____

129. 63 - 38 = _____

130. 85 - 59 = _____

SILVER LEVEL - SUBTRACTION

Developing your skills with larger numbers

Problems 131-150: Three-digit subtraction

131. 456 - 234 = _____

132. 687 - 359 = _____

133. 823 - 467 = _____

134. 745 - 528 = _____

135. 912 - 648 = _____

136. 578 - 389 = _____

137. 836 - 459 = _____

138. 654 - 277 = _____

139. 927 - 568 = _____

140. 743 - 486 = _____

141. 851 - 574 = _____

142. 932 - 657 = _____

143. 726 - 449 = _____

144. 865 - 578 = _____

145. 714 - 356 = _____

146. 948 - 679 = _____

147. 623 - 447 = _____

148. 857 - 588 = _____

149. 736 - 459 = _____
150. 982 - 695 = _____

Problems 151-160: Subtraction with zeros

151. 500 - 234 = _____

152. 700 - 458 = _____

153. 900 - 376 = _____

154. 600 - 429 = _____

155. 800 - 547 = _____

156. 1,000 - 628 = _____

157. 1,000 - 749 = _____

158. 1,000 - 356 = _____

159. 1,000 - 482 = _____

160. 1,000 - 567 = _____

GOLD LEVEL - SUBTRACTION

Mastering excellence with complex problems

Problems 161-170: Four-digit subtraction

161. 5,436 - 2,789 = _____

162. 7,824 - 3,956 = _____

163. 9,145 - 4,678 = _____

164. 6,732 - 2,865 = _____

165. 8,419 - 5,736 = _____

166. 7,256 - 3,489 = _____

167. 9,634 - 6,857 = _____

168. 8,125 - 4,768 = _____

169. 6,843 - 3,979 = _____

170. 9,512 - 5,846 = _____

Problems 171-180: Word Problems

171. A store had 847 toys. They sold 369 toys. How many toys are left?
172. There were 1,245 people at a concert. After intermission, 478 people left. How many people stayed? 173. Jake has $523 saved. He spends $187 on a bicycle. How much money does he have left? 174. A library has 2,456 books. They donated 789 books to another library. How many books do they have now?

175. The temperature was 78°F in the afternoon. By evening it dropped to 54°F. How many degrees did the temperature drop?

176. A school collected 3,845 cans for recycling. Students from one grade used 1,267 cans for an art project. How many cans are left?

177. There are 5,234 seats in a stadium. If 3,789 seats are occupied, how many seats are empty?

178. A baker made 1,500 cookies. She sold 856 cookies at the morning market. How many cookies does she have left for the afternoon market?

179. The distance from City A to City B is 2,456 miles. After driving 1,678 miles, how many more miles are left?

180. A farmer had 4,125 pounds of wheat. He sold 2,768 pounds. How many pounds of wheat does he have remaining?

SECTION 3: MULTIPLICATION

Understanding Multiplication

What is Multiplication? Multiplication is repeated addition. When you multiply, you're adding the same number multiple times.

Example: 4 × 3 means "4 groups of 3" or 3 + 3 + 3 + 3 = 12

Key Vocabulary:

Factors - The numbers being multiplied (e.g., in 4 × 3, both 4 and 3 are factors)

Product - The answer when you multiply (e.g., 4 × 3 = 12, where 12 is the product)

Times sign (×) - The symbol that means "multiply"

The Commutative Property: You can multiply numbers in any order and get the same answer: 4 × 3 = 12 is the same as 3 × 4 = 12

Multiplication Strategies:

1. **Skip Counting** For 6 × 4, count by 6s four times: 6, 12, 18, 24
2. **Arrays and Groups** Picture 4 rows of 6 items each ●
3. **Doubling** If you know 6 × 4 = 24, then 6 × 8 = 48 (double it!)
4. **Breaking Apart (Distributive Property)** For 7 × 8: Think: (5 × 8) + (2 × 8) = 40 + 16 = 56

Multiplication Facts to Memorize:

It's essential to know your times tables from 1 to 12. Here are some patterns that help:

×1: Any number times 1 equals itself (7 × 1 = 7)

×2: Double the number (7 × 2 = 14)

×5: The answer always ends in 0 or 5

×10: Add a zero to the number (7 × 10 = 70)

×11: Up to 9 × 11, repeat the digit (4 × 11 = 44)

BRONZE LEVEL - MULTIPLICATION

Basic problems to build confidence

Problems 181-200: Single-digit multiplication (0-5 times tables)

181. $3 \times 2 =$ _____

182. $4 \times 5 =$ _____

183. $2 \times 6 =$ _____

184. $5 \times 3 =$ _____

185. $4 \times 4 =$ _____

186. $3 \times 7 =$ _____

187. $5 \times 5 =$ _____

188. $2 \times 9 =$ _____

189. $4 \times 6 =$ _____

190. $5 \times 8 =$ _____

191. $3 \times 5 =$ _____

192. $4 \times 7 =$ _____

193. $2 \times 8 =$ _____

194. $5 \times 6 =$ _____

195. $3 \times 9 =$ _____

196. $4 \times 3 =$ _____
197. $5 \times 4 =$ _____

198. $2 \times 7 =$ _____

199. $3 \times 8 =$ _____

200. $5 \times 9 =$ _____

Problems 201-220: Single-digit multiplication (6-9 times tables)

201. $6 \times 7 =$ _____

202. $8 \times 4 =$ _____

203. $7 \times 9 =$ _____

204. $6 \times 6 =$ _____

205. 9 × 5 = _____

206. 8 × 7 = _____

207. 7 × 6 = _____

208. 9 × 8 = _____

209. 6 × 9 = _____

210. 8 × 8 = _____

211. 7 × 7 = _____

212. 9 × 6 = _____

213. 6 × 8 = _____

214. 8 × 9 = _____

215. 7 × 8 = _____

216. 9 × 9 = _____

217. 6 × 5 = _____

218. 8 × 6 = _____

219. 7 × 5 = _____

220. 9 × 7 = _____

SILVER LEVEL - MULTIPLICATION

Developing your skills with larger numbers

Problems 221-240: Two-digit by one-digit multiplication

221. 12 × 4 = _____

222. 23 × 3 = _____

223. 34 × 5 = _____

224. 45 × 2 = _____

225. 56 × 6 = _____

226. 67 × 4 = _____

227. 78 × 3 = _____

228. 89 × 5 = _____

229. 24 × 7 = _____

230. 35 × 8 = _____

231. 46 × 6 = _____

232. 57 × 4 = _____

233. 68 × 7 = _____

234. 79 × 3 = _____

235. 32 × 9 = _____

236. 43 × 5 = _____

237. 54 × 8 = _____

238. 65 × 6 = _____

239. 76 × 4 = _____

240. 87 × 7 = _____

Problems 241-250: Multiplying by 10, 100, 1000

241. 47 × 10 = _____

242. 23 × 100 = _____

243. 8 × 1,000 = _____

244. 156 × 10 = _____

245. 34 × 100 = _____

246. 12 × 1,000 = _____

247. 289 × 10 = _____

248. 67 × 100 = _____

249. 5 × 1,000 = _____

250. 345 × 10 = _____

GOLD LEVEL - MULTIPLICATION

Mastering excellence with complex problems

Problems 251-260: Two-digit by two-digit multiplication

251. 23 × 14 = _____

252. 36 × 25 = _____

253. 48 × 32 = _____

254. 57 × 43 = _____

255. 64 × 56 = _____

256. 72 × 38 = _____

257. 85 × 47 = _____

258. 93 × 62 = _____

259. 76 × 54 = _____

260. 89 × 71 = _____

Problems 261-270: Word Problems

261. A theater has 24 rows with 18 seats in each row. How many seats are in the theater?

262. Maria reads 45 pages each day. How many pages will she read in 12 days?

263. A baker makes 36 muffins every hour. How many muffins will he make in 8 hours?

264. Each box contains 25 pencils. How many pencils are in 16 boxes?

265. A farmer has 48 apple trees. Each tree produces 125 apples. How many apples does the farmer harvest?

266. There are 52 weeks in a year. If you save $15 each week, how much will you save in one year? 267. A school bus makes 23 trips per week. Each trip is 14 miles. How many miles does the bus travel per week?

268. Each student needs 35 sheets of paper. There are 28 students in the class. How many sheets of paper are needed?

269. A store sells 67 toys per day. How many toys will they sell in 30 days?

270. Each classroom has 32 students. If there are 18 classrooms, how many students are there in total?

SECTION 4: DIVISION

Understanding Division

What is Division? Division means splitting a number into equal groups or finding out how many times one number goes into another.

Example: 12 ÷ 3 means "12 split into 3 equal groups" or "How many 3s are in 12?"

Key Vocabulary:

Dividend - The number being divided (e.g., in 12 ÷ 3, the 12 is the dividend)

Divisor - The number you're dividing by (e.g., in 12 ÷ 3, the 3 is the divisor)

Quotient - The answer when you divide (e.g., 12 ÷ 3 = 4, where 4 is the quotient)

Remainder - What's left over when division doesn't come out evenly

Division Strategies:

1. **Think Multiplication** For 56 ÷ 7, ask: "What times 7 equals 56?" Since 8 × 7 = 56, the answer is 8
2. **Repeated Subtraction** For 20 ÷ 4, subtract 4 until you reach zero: 20 - 4 = 16 - 4 = 12 - 4 = 8 - 4 = 4 - 4 = 0 You subtracted 5 times, so 20 ÷ 4 = 5
3. **Using Arrays** For 24 ÷ 6, picture 24 items arranged in 6 equal rows ● Each row has 4, so 24 ÷ 6 = 4

Understanding Remainders: Sometimes numbers don't divide evenly. The amount left over is the remainder.

Example: 17 ÷ 5 = 3 R2

5 goes into 17 three times (5 × 3 = 15)

There are 2 left over (17 - 15 = 2)

So the answer is 3 with a remainder of 2

Checking Your Work: Multiply the quotient by the divisor (and add any remainder): If 28 ÷ 4 = 7, then 7 × 4 should equal 28 ✓

BRONZE LEVEL - DIVISION

Basic problems to build confidence

Problems 271-290: Division facts (÷2, ÷3, ÷4, ÷5)

271. 8 ÷ 2 = _____

272. 15 ÷ 3 = _____

273. 20 ÷ 4 = _____

274. 25 ÷ 5 = _____

275. 18 ÷ 2 = _____

276. 21 ÷ 3 = _____

277. 32 ÷ 4 = _____

278. 35 ÷ 5 = _____

279. 14 ÷ 2 = _____

280. 27 ÷ 3 = _____

281. 28 ÷ 4 = _____

282. 40 ÷ 5 = _____

283. 16 ÷ 2 = _____

284. 24 ÷ 3 = _____

285. 36 ÷ 4 = _____

286. 45 ÷ 5 = _____

287. 12 ÷ 2 = _____

288. 18 ÷ 3 = _____

289. 24 ÷ 4 = _____

290. 30 ÷ 5 = _____

Problems 291-310: Division facts (÷6, ÷7, ÷8, ÷9)

291. 36 ÷ 6 = _____

292. 49 ÷ 7 = _____

293. 56 ÷ 8 = _____

294. 63 ÷ 9 = _____

295. 42 ÷ 6 = _____

296. 35 ÷ 7 = _____
297. 64 ÷ 8 = _____

298. 72 ÷ 9 = _____

299. 48 ÷ 6 = _____

300. 42 ÷ 7 = _____

301. 72 ÷ 8 = _____

302. 81 ÷ 9 = _____

303. 54 ÷ 6 = _____

304. 56 ÷ 7 = _____

305. 48 ÷ 8 = _____

306. 54 ÷ 9 = _____

307. 30 ÷ 6 = _____

308. 28 ÷ 7 = _____

309. 40 ÷ 8 = _____

310. 45 ÷ 9 = _____

SILVER LEVEL - DIVISION

Developing your skills with larger numbers

Problems 311-330: Two-digit by one-digit division

311. 48 ÷ 4 = _____

312. 63 ÷ 3 = _____

313. 85 ÷ 5 = _____

314. 96 ÷ 6 = _____

315. 72 ÷ 8 = _____

316. 84 ÷ 7 = _____

317. 56 ÷ 4 = _____

318. 75 ÷ 5 = _____

319. 69 ÷ 3 = _____

320. 88 ÷ 8 = _____
321. 91 ÷ 7 = _____

322. 78 ÷ 6 = _____

323. 64 ÷ 4 = _____

324. 95 ÷ 5 = _____

325. 87 ÷ 3 = _____

326. 96 ÷ 8 = _____

327. 98 ÷ 7 = _____

328. 90 ÷ 6 = _____

329. 76 ÷ 4 = _____

330. 80 ÷ 5 = _____

Problems 331-340: Division with remainders

331. 17 ÷ 3 = _____ R_____

332. 26 ÷ 4 = _____ R_____

333. 35 ÷ 6 = _____ R_____

334. 44 ÷ 7 = _____ R_____

335. 53 ÷ 8 = _____ R_____

336. 29 ÷ 5 = _____ R_____

337. 38 ÷ 6 = _____ R_____

338. 47 ÷ 9 = _____ R_____

339. 56 ÷ 7 = _____ R_____

340. 65 ÷ 8 = _____ R_____

GOLD LEVEL - DIVISION

Mastering excellence with complex problems

Problems 341-350: Three-digit by one-digit division

341. 144 ÷ 6 = _____

342. 216 ÷ 8 = _____

343. 345 ÷ 5 = _____
344. 273 ÷ 7 = _____

345. 396 ÷ 9 = _____

346. 456 ÷ 6 = _____

347. 512 ÷ 8 = _____

348. 364 ÷ 7 = _____

349. 540 ÷ 9 = _____

350. 432 ÷ 6 = _____

Problems 351-360: Word Problems

351. A teacher has 96 pencils to share equally among 8 students. How many pencils does each student get?

352. There are 156 students going on a field trip. Each bus can hold 26 students. How many buses are needed?

353. A baker made 144 cookies and wants to put them in boxes of 12. How many boxes will he need? 354. A rope is 135 feet long. If it's cut into pieces that are 9 feet long, how many pieces will there be?

355. Maria has 234 stickers. She wants to give an equal number to 6 friends. How many stickers will each friend get?

356. A farmer collected 456 eggs. He wants to pack them in cartons of 12. How many cartons can he fill?

357. The school library has 672 books to place on 8 shelves. If each shelf holds the same number of books, how many books go on each shelf?

358. A factory produces 945 toys in one day. If they pack 7 toys per box, how many boxes will they need?

359. There are 528 miles to drive. If you drive 6 hours, how many miles per hour do you average? 360. A

store has 864 cans to stack on 9 shelves. How many cans go on each shelf?

SECTION 5: MIXED PRACTICE

Real-World Word Problems

Problems 361-370: Choose the correct operation

361. Sarah has 47 stamps. Her brother gives her 28 more stamps. How many stamps does Sarah have now?

362. There are 156 apples in a basket. If 89 apples are eaten, how many apples are left? 363. A library has 12 shelves with 15 books on each shelf. How many books are there in total? 364. 84 students are going on a field trip. Each van can hold 7 students. How many vans are needed?

365. Tom saved $125 in January, $87 in February, and $143 in March. How much did he save in total?

366. A rope is 245 inches long. If 78 inches are cut off, how long is the rope now?

367. Each box contains 24 crayons. How many crayons are in 15 boxes?

368. A school has 432 students. If they are divided equally into 6 grades, how many students are in each grade?

369. Maria bought a book for $18, a toy for $25, and a game for $32. How much did she spend in total? 370. A farmer had 567 chickens. He sold 289 of them. How many chickens does he have left?

Challenge Problems

Problems 371-380: Multi-step problems

371. A store had 345 toys. They received 178 more toys in the morning and 256 more in the afternoon. Then they sold 423 toys. How many toys are left?

372. Jake earned $45 on Monday, $67 on Tuesday, and $52 on Wednesday. If he spent $85, how much money does he have left?

373. A baker made 12 trays of cookies with 24 cookies on each tray. She sold 156 cookies. How many cookies does she have left?

374. There are 8 classrooms with 28 students in each classroom. If 45 students are absent today, how many students are present?

375. Maria has $234. She wants to buy 3 books that cost $18 each and 2 toys that cost $25 each. Will she have enough money? If yes, how much will she have left?

376. A farmer planted 15 rows of corn with 36 plants in each row. After a storm, 47 plants were damaged. How

many healthy plants remain?

377. There are 456 people at a concert. 178 people leave after the first act, then 89 more people arrive for the second act. How many people are there now?

378. A school library has 12 shelves with 45 books on each shelf. They receive a donation of 128 new books and remove 67 damaged books. How many books does the library have now?

379. Jenny collects 23 shells on Monday, 34 on Tuesday, and 19 on Wednesday. She gives away 28 shells to friends. Then she finds 15 more on Thursday. How many shells does she have now?

380. A store has 567 items. They sell 6 items per hour. After 8 hours, they receive a shipment of 234 new items. How many items does the store have now?

Timed Practice Tests

Test A: 20 Mixed Problems (Aim for 15 minutes)

381. 47 + 68 = _____
382. 95 - 37 = _____

383. 8 × 7 = _____

384. 56 ÷ 7 = _____

385. 234 + 567 = _____

386. 823 - 456 = _____

387. 23 × 4 = _____

388. 144 ÷ 12 = _____

389. 3,456 + 2,789 = _____

390. 5,234 - 2,867 = _____

391. 34 × 12 = _____

392. 216 ÷ 8 = _____

393. 456 + 789 + 234 = _____

394. 1,000 - 678 = _____

395. 45 × 11 = _____

396. 360 ÷ 9 = _____

397. 2,345 + 1,678 = _____

398. 4,567 - 2,899 = _____

399. 78 × 6 = _____

400. 432 ÷ 6 = _____

COMPLETE ANSWER KEY

SECTION 1: ADDITION -

ANSWERS Bronze Level (1-40)

1. 68 11. 78 21. 63 31. 85

2. 88 12. 79 22. 85 32. 95

3. 78 13. 78 23. 83 33. 95

4. 78 14. 87 24. 83 34. 94

5. 79 15. 87 25. 94 35. 93
6. 85 16. 99 26. 86 36. 95

7. 87 17. 79 27. 95 37. 105

8. 88 18. 78 28. 93 38. 94

9. 89 19. 98 29. 113 39. 95

10. 89 20. 98 30. 94 40. 95

Silver Level (41-70) 41. 386 51. 1,013 61. 86 42. 774 52. 1,117 62. 153 43. 785 53. 1,211 63. 162 44. 841 54. 1,312 64. 166 45. 922 55. 1,223 65. 191 46. 854 56. 1,125 66. 182 47. 913 57. 1,413 67. 206 48. 944 58. 1,234 68. 207 49. 1,121 59. 1,224 69. 192 50. 1,114 60. 1,223 70. 210

Gold Level (71-90) 71. 3,931 81. 423 marbles 72. 6,585 82. 965 books 73. 8,621 83. $852 74. 9,865 84. 2,824 apples 75. 9,224 85. 8,241 people 76. 13,124 86. 3,300 steps 77. 12,341 87. 1,390 books 78. 14,023 88. 7,366 cans 79. 14,223 89. 2,812 people 80. 15,322 90. 1,368 cookies

SECTION 2: SUBTRACTION - ANSWERS

Bronze Level (91-130) 91. 46 111. 24 121. 17 92. 22 112. 26 122. 27 93. 63 113. 25 123. 23 94. 25 114. 25 124. 17 95. 24 115. 27 125. 26 96. 41 116. 15 126. 18 97. 43 117. 27 127. 27 98. 41 118. 15 128. 27 99. 52 119. 28

129. 25 100. 22 120. 25 130. 26

101. 52

102. 31

103. 33

104. 32

105. 43

106. 24

107. 51

108. 43

109. 32

110. 32

Silver Level (131-160) 131. 222 141. 277 151. 266 132. 328 142. 275 152. 242 133. 356 143. 277 153. 524 134. 217 144. 287 154. 171 135. 264 145. 358 155. 253 136. 189 146. 269 156. 372 137. 377 147. 176 157. 251 138. 377 148. 269 158. 644 139. 359 149. 277 159. 518 140. 257 150. 287 160. 433

Gold Level (161-180) 161. 2,647 171. 478 toys 162. 3,868 172. 767 people 163. 4,467 173. $336 164. 3,867 174. 1,667 books 165. 2,683 175. 24 degrees 166. 3,767 176. 2,578 cans 167. 2,777 177. 1,445 seats 168. 3,357 178. 644 cookies 169. 2,864 179. 778 miles 170. 3,666 180. 1,357 pounds

SECTION 3: MULTIPLICATION - ANSWERS

Bronze Level (181-220) 181. 6 201. 42 211. 49 182. 20 202. 32 212. 54 183. 12 203. 63 213. 48 184. 15 204. 36 214. 72 185. 16 205. 45 215. 56 186. 21 206. 56 216. 81 187. 25 207. 42 217. 30 188. 18 208. 72 218. 48 189. 24 209. 54 219. 35 190. 40 210. 64 220. 63

191. 15

192. 28

193. 16

194. 30

195. 27

196. 12

197. 20

198. 14

199. 24

200. 45

Silver Level (221-250) 221. 48 231. 276 241. 470 222. 69 232. 228 242. 2,300 223. 170 233. 476 243. 8,000 224. 90 234. 237 244. 1,560 225. 336 235. 288 245. 3,400 226. 268 236. 215 246. 12,000 227. 234 237. 432 247. 2,890 228. 445 238. 390 248. 6,700 229. 168 239. 304 249. 5,000 230. 280 240. 609 250. 3,450

Gold Level (251-270) 251. 322 261. 432 seats 252. 900 262. 540 pages 253. 1,536 263. 288 muffins 254. 2,451 264. 400 pencils 255. 3,584 265. 6,000 apples 256. 2,736 266. $780 257. 3,995 267. 322 miles 258. 5,766 268. 980 sheets 259. 4,104 269. 2,010 toys 260. 6,319 270. 576 students

SECTION 4: DIVISION - ANSWERS

Bronze Level (271-310) 271. 4 291. 6 301. 9 272. 5 292. 7 302. 9 273. 5 293. 7 303. 9 274. 5 294. 7 304. 8 275. 9 295. 7 305. 6 276. 7 296. 5 306. 6 277. 8 297. 8 307. 5 278. 7 298. 8 308. 4 279. 7 299. 8 309. 5 280. 9 300. 6 310. 5

281. 7

282. 8

283. 8

284. 8

285. 9

286. 9

287. 6
288. 6

289. 6

290. 6

Silver Level (311-340) 311. 12 321. 13 331. 5 R2 312. 21 322. 13 332. 6 R2 313. 17 323. 16 333. 5 R5 314. 16 324. 19 334. 6 R2 315. 9 325. 29 335. 6 R5 316. 12 326. 12 336. 5 R4 317. 14 327. 14 337. 6 R2 318. 15 328. 15 338. 5 R2 319. 23 329. 19 339. 8 R0 320. 11 330. 16 340. 8 R1

Gold Level (341-360) 341. 24 351. 12 pencils 342. 27 352. 6 buses 343. 69 353. 12 boxes 344. 39 354. 15 pieces 345. 44 355. 39 stickers 346. 76 356. 38 cartons 347. 64 357. 84 books 348. 52 358. 135 boxes 349. 60 359. 88 mph 350. 72 360. 96 cans

SECTION 5: MIXED PRACTICE - ANSWERS

Real-World Problems (361-370) 361. 75 stamps (addition: 47 + 28) 362. 67 apples (subtraction: 156 - 89) 363. 180 books (multiplication: 12 × 15) 364. 12 vans (division: 84 ÷ 7) 365. $355 (addition: 125 + 87 + 143) 366. 167 inches (subtraction: 245 - 78) 367. 360 crayons (multiplication: 24 × 15) 368. 72 students (division: 432 ÷ 6) 369. $75 (addition: 18 + 25 + 32) 370. 278 chickens (subtraction: 567 - 289)

Challenge Problems (371-380) 371. 356 toys [(345 + 178 + 256) - 423] 372. $79 [(45 + 67 + 52) - 85] 373. 132 cookies [(12 × 24) - 156] 374. 179 students [(8 × 28) - 45] 375. Yes, $130 left [234 - (3 × 18 + 2 × 25)] 376. 493 plants [(15 × 36) - 47] 377. 367 people [(456 - 178) + 89] 378. 601 books [(12 × 45 + 128) - 67] 379. 63 shells [(23 + 34 + 19 - 28) + 15] 380. 753 items [(567 - (6 × 8)) + 234]

Timed Test A (381-400) 381. 115 391. 408 382. 58 392. 27 383. 56 393. 1,479 384. 8 394. 322 385. 801 395. 495 386. 367 396. 40 387. 92 397. 4,023 388. 12 398. 1,668 389. 6,245 399. 468 390. 2,367 400. 72

PROGRESS TRACKER

Your Achievement Badges

Track your progress as you complete each section. Color in each badge when you achieve 80% accuracy or higher!

ADDITION ☐☐ Bronze (Problems 1-40): _____ / 40 correct = _____% ☐☐ Silver (Problems 41-70): _____ / 30 correct = _____% ☐☐ Gold (Problems 71-90): _____ / 20 correct = _____%

SUBTRACTION ☐☐ Bronze (Problems 91-130): _____ / 40 correct = _____% ☐☐ Silver (Problems 131-160): _____ / 30 correct = _____% ☐☐ Gold (Problems 161-180): _____ / 20 correct = _____%

MULTIPLICATION ☐☐ Bronze (Problems 181-220): _____ / 40 correct = _____% ☐☐ Silver (Problems 221- 250): _____ / 30 correct = _____% ☐☐ Gold (Problems 251-270): _____ / 20 correct = _____%

DIVISION ☐☐ Bronze (Problems 271-310): _____ / 40 correct = _____% ☐☐ Silver (Problems 311-340): _____ / 30 correct = _____% ☐☐ Gold (Problems 341-360): _____ / 20 correct = _____%
MIXED PRACTICE Real-World Problems (361-370): _____ / 10 correct = _____% Challenge Problems (371-380): _____ / 10 correct = _____% Timed Test A (381-400): _____ / 20 correct = _____%

Overall Mastery Level

Total Problems: 400 **Your Score:** _____ / 400 = _____%

Achievement Level:

90-100%: ☐☐ PLATINUM MASTER

80-89%: ☐☐ GOLD MASTER

70-79%: ☐☐ SILVER ACHIEVER

60-69%: ?? BRONZE BUILDER

Below 60%: Keep practicing! Review concepts and try again.

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