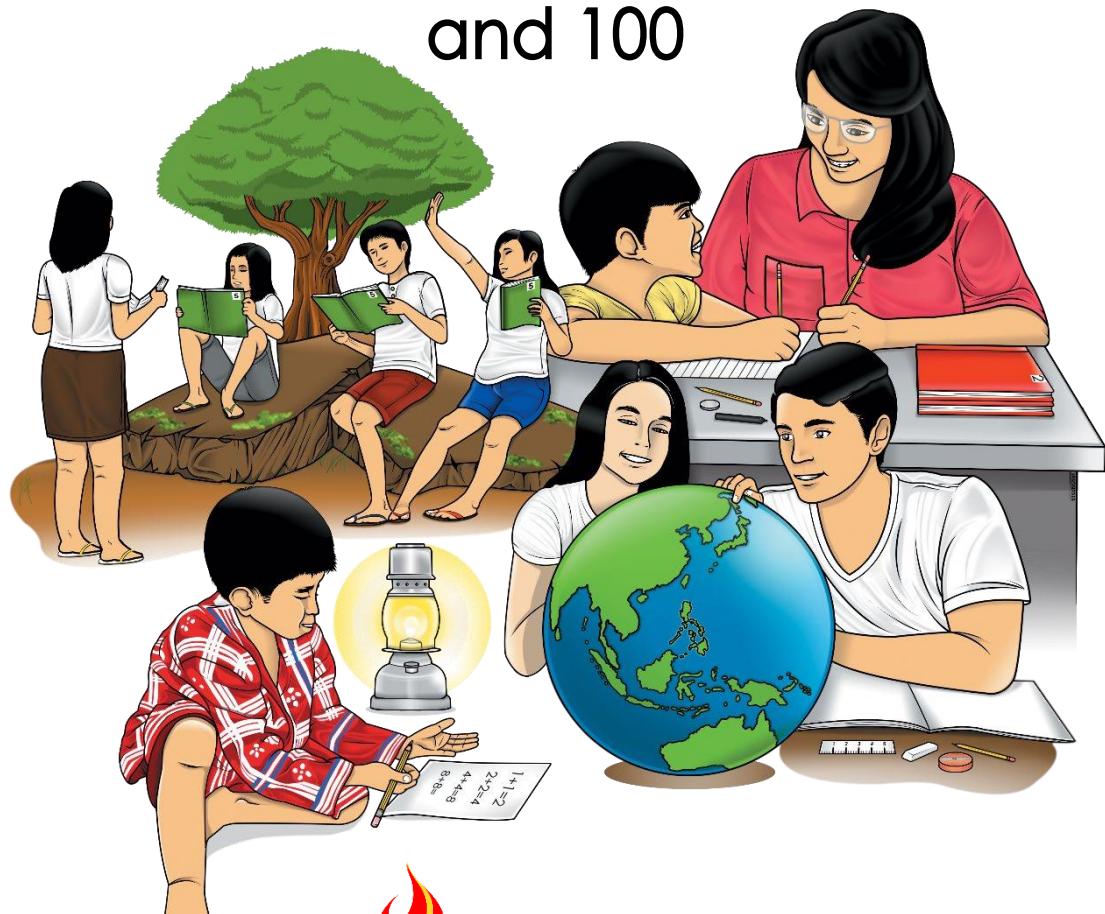


# Mathematics

## Quarter 2 – Module 11(b): Dividing 2 to 3 Digit Numbers by 10 and 100



**Mathematics – Grade 3**  
**Alternative Delivery Mode**  
**Quarter 2 – Module 11b: Dividing 2 to 3 Digit Numbers by 10 and 100**  
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# Mathematics

Quarter 2 – Module 11b:  
Dividing 2 to 3 Digit Numbers  
by 10  
and 100

## Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



## *What I Need to Know*

This module was designed and written with you in mind. It is here to help you master on dividing 2 to 3 digit numbers by 10 and

100. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of students. The lessons are arranged to follow the standard sequence of the course. But the order in which you read them can be changed to correspond with the textbook you are now using.

After going through this module, you are expected to:

- divide 2 to 3 digit numbers by 10 and 100.

Enjoy your journey. Good luck!



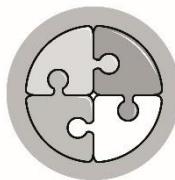
## What I Know

Write the letter of the correct answer.

1. What is  $70 \div 10$ ?  
a. 5      b. 6      c. 7      d. 8
2. What is the remainder if you divide 651 by 10?  
a. 1      b. 2      c. 3      d. 4
3. What is the quotient when 205 is divided by 100?  
a. 1 r. 2      b. 2 r. 2      c. 2 r. 4      d. 2 r. 5
4. Find the quotient:  $750 \div 100$   
a. 7 r. 3      b. 7 r. 5      c. 7 r. 50      d. 7 r. 53
5. Solve:  $10 \overline{)96}$   
a. 6 r. 9      b. 9 r. 6      c. 9 r. 9      d. 6 r. 6

# Divides 2 to 3 Digit Numbers by 10 and 100

In your previous lesson, you learned how to divide 2- to 3-digit numbers by 1-digit number. In this module, you will be dividing 2-to 3-digit numbers by 10 and 100.



## *What's In*

Since division is an inverse operation of multiplication, it is important to master the rules in multiplying numbers by 10 and 100.

### Activity 1

Fill in table by multiplying the given number by 10 and 100.

Given	Multiply 10	Multiply by 100
2	20	200
3	30	300
4		
5		
6		
7		
8		
9		



### **Notes to the Teacher**

Use the provided answer sheet for the activities: What I know, What's In, What's More, Assessment and Additional/Supplemental Activities



### **What's New**



A civic organization received a donation of 200 bottles of mineralwater for the victims of Typhoon Pablo in Cateel, Davao Oriental. The bottles of mineral water will be distributed equally among 10 families. How many bottles of mineral water would each family receive?

Can you help them find ways on how to distribute the number of bottles equally among 10 families?



## What is It

Let us find 200 divided by 10.

We can solve this in three different ways:

1. Use of family of multiplication and division facts $2 \times 1 = 2 \rightarrow 2 \div 1 = 2$ $20 \times 1 = 20 \rightarrow 20 \div 10 = 2$ $20 \times 10 = 200 \rightarrow 200 \div 10 = 20$ Each Family will receive 20 bottles of mineral	2. Cross out Method/Short cut method Cross out zeros to make division easier $200 \div 10$ Cross out the same number of zeros in both the dividend and divisor to have $20 \div 1 = 20$ . So, $200 \div 10 = 20$	3. Long Method $\begin{array}{r} 20 \\ 10 \overline{)200} \\ - 20 \\ \hline 0 \\ - 0 \\ \hline 0 \end{array}$ <p>Remember that <math>0 \div 10 = 0</math> because <math>0 \times 10 = 0</math>.</p> <p>So, <math>200 \div 10 = 20</math></p>
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Which method would you think is easier to use? Why?

Notice that the solution is an example of *dividing numbers without remainder*.

When the dividend is in multiples of 10 and 100 then, Cross-out Method would be easier to use.

However, when the process involves *dividing with remainder* then long division is appropriate to use.

Let us have more examples.

Let us find  $423 \div 10$

$$\begin{array}{r} 42 \text{ r. 3} \\ 10 \overline{)423} \\ -40 \\ \hline 23 \\ -20 \\ \hline 3 \end{array}$$

There are no digits left to divide, so 2 cannot be divided by 10, so 2 is the remainder.

The answer is 4 remainder 2.

Let us find  $825 \div 10$ .

$$\begin{array}{r} 82 \text{ r. 5} \\ 10 \overline{)825} \\ -800 \\ \hline 25 \\ -20 \\ \hline 5 \end{array}$$

What have you observed?

When a 3-digit number (825) is divided by 10, the quotient is the rightmost 2 digits of the dividend (82) and the remainder is the remaining digit(5).

$$\text{So, } 825 \div 100 = 82 \text{ r. 5}$$

Let us divide

$$\begin{array}{r} 69 \div 10 \\ \hline 6 \text{ r. 9} \\ 10 \overline{)69} \\ -60 \\ \hline 9 \end{array}$$

What have you observed?

When a 2-digit number (69) is divided by 10, the quotient is the digit in the tens place (6) and the remainder is the digit in the ones place (9).

$$\text{So, } 69 \div 10 = 6 \text{ r. 9}$$

Let us divide  $535 \div 100$

$$\begin{array}{r} 5 \text{ r. 35} \\ 100 \overline{)535} \\ -500 \\ \hline 35 \end{array}$$

What have you observed?

When a 3-digit number (535) is divided by 100, the quotient is the digit in the hundreds place (5) and the remainder is the remaining 2 digits (35).

$$\text{So, } 535 \div 100 = 5 \text{ r. 35}$$

Observe the following numbers when divided by 10.

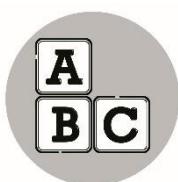
Dividen d	Divisor	Quotient
89	10	8 r .9
590	10	59
347	10	34 r .7

Observe the following numbers when divided by 100.

Dividen d	Divisor	Quotien t
800	100	8
970	100	9 r 70
874	100	8 r 74

Did you now see the pattern?

Let us practice by doing the next activity.



## What's More

### Activity 2

Find the quotient.

Dividen d	Divisor	Quotient
80	10	
97	10	
400	10	
701	10	
600	100	
320	100	
905	100	
583	100	



## *What I Have Learned*

To divide 2- to 3-digit numbers by 10 and 100, the following method can be used:

- ✓ When the dividend is a multiple of 10 or 100, cancel the same number of zeros from both the dividend and the divisor to reduce the divisor into 1.
- ✓ When the dividend is not a multiple of 10, use the long division.
- ✓ A shortcut method can also be used as a general rule.
  - When a 2-digit number is divided by 10, the quotient is the digit in the tens place and the remainder is the digit in the ones place.
  - When a 3-digit number is divided by 10, the quotient is the rightmost 2 digits of the dividend and the remainder is the remaining ones digit.
  - When a 3-digit number is divided by 100, the quotient is the digit in the hundreds place and the remainder is the remaining 2 digits.



## What I Can Do

### Activity 3

Find the quotient then encircle the answer in the box. To find the answer, you may move down, across or diagonally.

1.

$$560 \div 10$$

2.

$$800 \div 100$$

3.

$$430 \div 10$$

4.

$$750 \div 10$$

9	6	1	5	4
0	3	2	6	3
5	4	0	2	7
8	6	6	1	7

10.

$$90 \div 10$$

9.

$$120 \div 10$$

8.

$$670 \div 10$$

7.

$$400 \div 10$$

Write here your  
answer.

1. \_\_\_\_\_

6. \_\_\_\_\_

2. \_\_\_\_\_

7. \_\_\_\_\_

3. \_\_\_\_\_

8. \_\_\_\_\_

4. \_\_\_\_\_

9. \_\_\_\_\_

5. \_\_\_\_\_

10. \_\_\_\_\_



## Assessment

Write the letter of the correct answer.

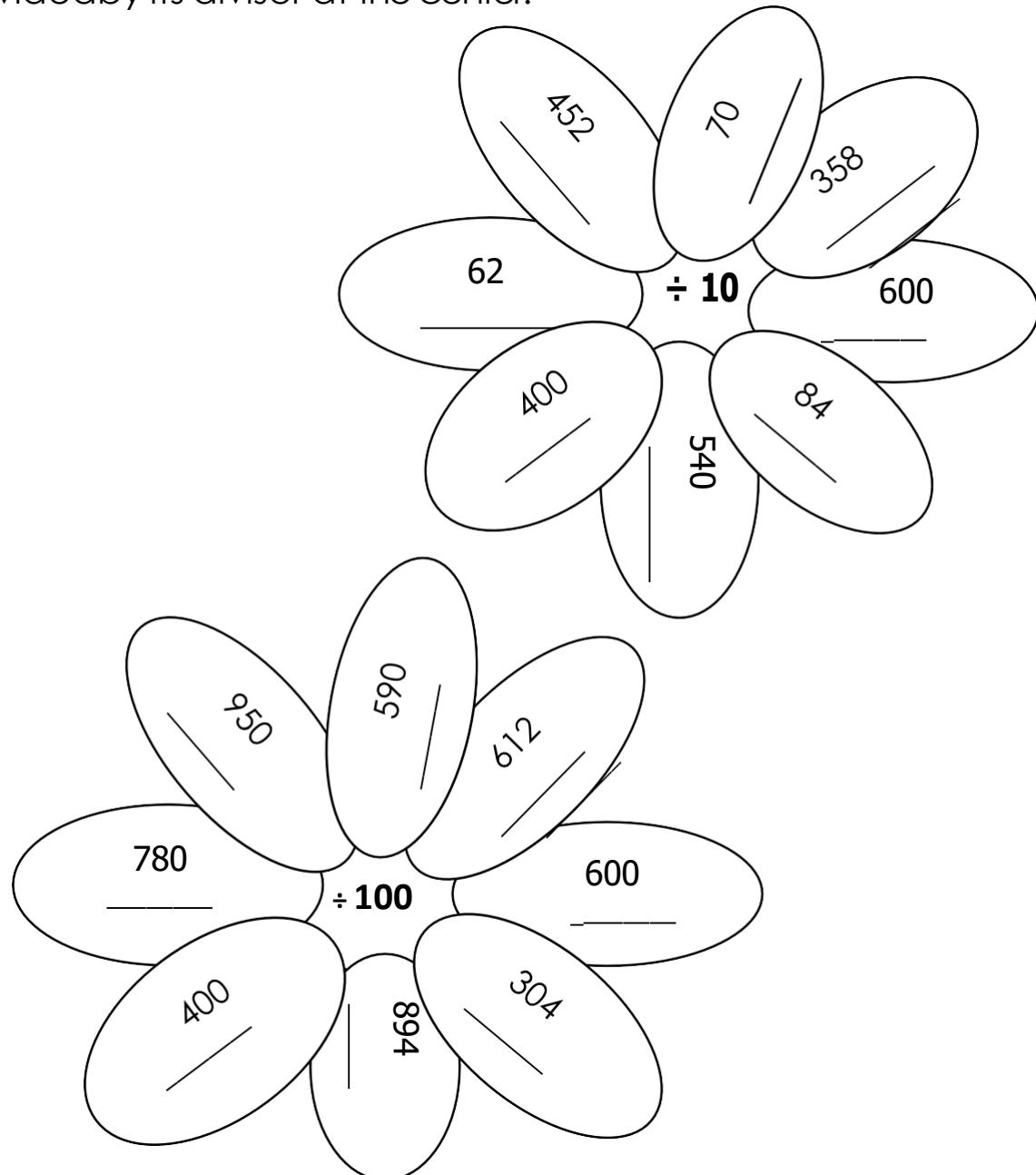
1. What is  $30 \div 10$ ?  
a. 2      b. 3      c. 4      d. 5
  
2. What is the remainder if you divide 857 by 10?  
a. 6      b. 7      c. 5      d. 8
  
3. What is the quotient when 604 is divided by 100?  
a. 4 r. 2      b. 5 r. 2      c. 6 r. 4      d. 6 r. 0
  
4. Find the quotient:  $953 \div 100$   
a. 9 r. 30      b. 9 r. 50      c. 9 r. 53      d. 9 r. 35
  
5. Solve:  $10 \overline{)55}$   
a. 5 r. 5      b. 5 r. 1      c. 5 r. 6      d. 6 r. 5



## Additional Activities

### Activity 4

Write the quotient on the blank when the petal number is divided by its divisor at the center.





# Answer Key

What I Know  1. C 2. A 3. D 4. C 5. B  Activity 2										---	--------	----	---------	---	---------	--------	---------		8	9 r. 7	40	70 r. 1	6	3 r. 20	9 r. 5	5 r. 83		---	--------	----	---------	---	---------	--------	---------		What's In  40 400 50 500 60 600 70 700 80 800 90 900  Activity 2														----	-----	----	-----	----	-----	----	-----	----	-----	----	-----		40	400	50	500	60	600	70	700	80	800	90	900		----	-----	----	-----	----	-----	----	-----	----	-----	----	-----		What I Can Do  Activity 3			---		1. 56 2. 8 3. 43 4. 75 5. 62 6. 81 7. 40 8. 67 9. 12 10. 9		---	Additional Activity
  | 
--
--| | 1. B<br>2. B<br>3. C<br>4. C<br>5. A<br>6. 60<br>7. 35 r. 8<br>8. 35 r. 4<br>9. 40<br>10. 54<br>11. 60<br>12. 35 r. 2<br>13. 45 r. 2<br>14. 7 r. 8<br>15. 6 r. 2<br>16. 6 r. 12<br>17. 9 r. 50<br>18. 5 r. 90<br>19. 6 r. 50<br>20. 7 r. 80<br>21. 9 r. 50<br>22. 6 r. 40<br>23. 8 r. 4<br>24. 54<br>25. 40<br>26. 8 r. 4<br>27. 60<br>28. 35 r. 8<br>29. 7<br>30. 45 r. 2<br>31. 6 r. 2<br>32. 6 r. 12<br>33. 5 r. 90<br>34. 6 r. 50<br>35. 7 r. 80<br>36. 9 r. 50<br>37. 6 r. 40<br>38. 8 r. 4<br>39. 54<br>40. 40<br>41. 60<br>42. 35 r. 8<br>43. 7<br>44. 45 r. 2<br>45. 6 r. 2<br>46. 6 r. 12<br>47. 9 r. 50<br>48. 5 r. 90<br>49. 6 r. 50<br>50. 7 r. 80<br>51. 9 r. 50<br>52. 6 r. 40<br>53. 8 r. 4<br>54. 54<br>55. 40<br>56. 8 r. 4<br>57. 60<br>58. 35 r. 8<br>59. 7<br>60. 45 r. 2<br>61. 6 r. 2<br>62. 6 r. 12<br>63. 5 r. 90<br>64. 6 r. 50<br>65. 7 r. 80<br>66. 9 r. 50<br>67. 6 r. 40<br>68. 8 r. 4<br>69. 54<br>70. 40<br>71. 60<br>72. 35 r. 8<br>73. 7<br>74. 45 r. 2<br>75. 6 r. 2<br>76. 6 r. 12<br>77. 9 r. 50<br>78. 5 r. 90<br>79. 6 r. 50<br>80. 7 r. 80<br>81. 9 r. 50<br>82. 6 r. 40<br>83. 8 r. 4<br>84. 54<br>85. 40<br>86. 8 r. 4<br>87. 60<br>88. 35 r. 8<br>89. 7<br>90. 45 r. 2<br>91. 6 r. 2<br>92. 6 r. 12<br>93. 5 r. 90<br>94. 6 r. 50<br>95. 7 r. 80<br>96. 9 r. 50<br>97. 6 r. 40<br>98. 8 r. 4<br>99. 54<br>100. 40<br>101. 60<br>102. 35 r. 8<br>103. 7<br>104. 45 r. 2<br>105. 6 r. 2<br>106. 6 r. 12<br>107. 9 r. 50<br>108. 5 r. 90<br>109. 6 r. 50<br>110. 7 r. 80<br>111. 9 r. 50<br>112. 6 r. 40<br>113. 8 r. 4<br>114. 54<br>115. 40<br>116. 8 r. 4<br>117. 60<br>118. 35 r. 8<br>119. 7<br>120. 45 r. 2<br>121. 6 r. 2<br>122. 6 r. 12<br>123. 5 r. 90<br>124. 6 r. 50<br>125. 7 r. 80<br>126. 9 r. 50<br>127. 6 r. 40<br>128. 8 r. 4<br>129. 54<br>130. 40<br>131. 8 r. 4<br>132. 60<br>133. 35 r. 8<br>134. 7<br>135. 45 r. 2<br>136. 6 r. 2<br>137. 6 r. 12<br>138. 5 r. 90<br>139. 6 r. 50<br>140. 7 r. 80<br>141. 9 r. 50<br>142. 6 r. 40<br>143. 8 r. 4<br>144. 54<br>145. 40<br>146. 8 r. 4<br>147. 60<br>148. 35 r. 8<br>149. 7<br>150. 45 r. 2<br>151. 6 r. 2<br>152. 6 r. 12<br>153. 5 r. 90<br>154. 6 r. 50<br>155. 7 r. 80<br>156. 9 r. 50<br>157. 6 r. 40<br>158. 8 r. 4<br>159. 54<br>160. 40<br>161. 8 r. 4<br>162. 60<br>163. 35 r. 8<br>164. 7<br>165. 45 r. 2<br>166. 6 r. 2<br>167. 6 r. 12<br>168. 5 r. 90<br>169. 6 r. 50<br>170. 7 r. 80<br>171. 9 r. 50<br>172. 6 r. 40<br>173. 8 r. 4<br>174. 54<br>175. 40<br>176. 8 r. 4<br>177. 60<br>178. 35 r. 8<br>179. 7<br>180. 45 r. 2<br>181. 6 r. 2<br>182. 6 r. 12<br>183. 5 r. 90<br>184. 6 r. 50<br>185. 7 r. 80<br>186. 9 r. 50<br>187. 6 r. 40<br>188. 8 r. 4<br>189. 54<br>190. 40<br>191. 8 r. 4<br>192. 60<br>193. 35 r. 8<br>194. 7<br>195. 45 r. 2<br>196. 6 r. 2<br>197. 6 r. 12<br>198. 5 r. 90<br>199. 6 r. 50<br>200. 7 r. 80<br>201. 9 r. 50<br>202. 6 r. 40<br>203. 8 r. 4<br>204. 54<br>205. 40<br>206. 8 r. 4<br>207. 60<br>208. 35 r. 8<br>209. 7<br>210. 45 r. 2<br>211. 6 r. 2<br>212. 6 r. 12<br>213. 5 r. 90<br>214. 6 r. 50<br>215. 7 r. 80<br>216. 9 r. 50<br>217. 6 r. 40<br>218. 8 r. 4<br>219. 54<br>220. 40<br>221. 8 r. 4<br>222. 60<br>223. 35 r. 8<br>224. 7<br>225. 45 r. 2<br>226. 6 r. 2<br>227. 6 r. 12<br>228. 5 r. 90<br>229. 6 r. 50<br>230. 7 r. 80<br>231. 9 r. 50<br>232. 6 r. 40<br>233. 8 r. 4<br>234. 54<br>235. 40<br>236. 8 r. 4<br>237. 60<br>238. 35 r. 8<br>239. 7<br>240. 45 r. 2<br>241. 6 r. 2<br>242. 6 r. 12<br>243. 5 r. 90<br>244. 6 r. 50<br>245. 7 r. 80<br>246. 9 r. 50<br>247. 6 r. 40<br>248. 8 r. 4<br>249. 54<br>250. 40<br>251. 8 r. 4<br>252. 60<br>253. 35 r. 8<br>254. 7<br>255. 45 r. 2<br>256. 6 r. 2<br>257. 6 r. 12<br>258. 5 r. 90<br>259. 6 r. 50<br>260. 7 r. 80<br>261. 9 r. 50<br>262. 6 r. 40<br>263. 8 r. 4<br>264. 54<br>265. 40<br>266. 8 r. 4<br>267. 60<br>268. 35 r. 8<br>269. 7<br>270. 45 r. 2<br>271. 6 r. 2<br>272. 6 r. 12<br>273. 5 r. 90<br>274. 6 r. 50<br>275. 7 r. 80<br>276. 9 r. 50<br>277. 6 r. 40<br>278. 8 r. 4<br>279. 54<br>280. 40<br>281. 8 r. 4<br>282. 60<br>283. 35 r. 8<br>284. 7<br>285. 45 r. 2<br>286. 6 r. 2<br>287. 6 r. 12<br>288. 5 r. 90<br>289. 6 r. 50<br>290. 7 r. 80<br>291. 9 r. 50<br>292. 6 r. 40<br>293. 8 r. 4<br>294. 54<br>295. 40<br>296. 8 r. 4<br>297. 60<br>298. 35 r. 8<br>299. 7<br>300. 45 r. 2<br>301. 6 r. 2<br>302. 6 r. 12<br>303. 5 r. 90<br>304. 6 r. 50<br>305. 7 r. 80<br>306. 9 r. 50<br>307. 6 r. 40<br>308. 8 r. 4<br>309. 54<br>310. 40<br>311. 8 r. 4<br>312. 60<br>313. 35 r. 8<br>314. 7<br>315. 45 r. 2<br>316. 6 r. 2<br>317. 6 r. 12<br>318. 5 r. 90<br>319. 6 r. 50<br>320. 7 r. 80<br>321. 9 r. 50<br>322. 6 r. 40<br>323. 8 r. 4<br>324. 54<br>325. 40<br>326. 8 r. 4<br>327. 60<br>328. 35 r. 8<br>329. 7<br>330. 45 r. 2<br>331. 6 r. 2<br>332. 6 r. 12<br>333. 5 r. 90<br>334. 6 r. 50<br>335. 7 r. 80<br>336. 9 r. 50<br>337. 6 r. 40<br>338. 8 r. 4<br>339. 54<br>340. 40<br>341. 8 r. 4<br>342. 60<br>343. 35 r. 8<br>344. 7<br>345. 45 r. 2<br>346. 6 r. 2<br>347. 6 r. 12<br>348. 5 r. 90<br>349. 6 r. 50<br>350. 7 r. 80<br>351. 9 r. 50<br>352. 6 r. 40<br>353. 8 r. 4<br>354. 54<br>355. 40<br>356. 8 r. 4<br>357. 60<br>358. 35 r. 8<br>359. 7<br>360. 45 r. 2<br>361. 6 r. 2<br>362. 6 r. 12<br>363. 5 r. 90<br>364. 6 r. 50<br>365. 7 r. 80<br>366. 9 r. 50<br>367. 6 r. 40<br>368. 8 r. 4<br>369. 54<br>370. 40<br>371. 8 r. 4<br>372. 60<br>373. 35 r. 8<br>374. 7<br>375. 45 r. 2<br>376. 6 r. 2<br>377. 6 r. 12<br>378. 5 r. 90<br>379. 6 r. 50<br>380. 7 r. 80<br>381. 9 r. 50<br>382. 6 r. 40<br>383. 8 r. 4<br>384. 54<br>385. 40<br>386. 8 r. 4<br>387. 60<br>388. 35 r. 8<br>389. 7<br>390. 45 r. 2<br>391. 6 r. 2<br>392. 6 r. 12<br>393. 5 r. 90<br>394. 6 r. 50<br>395. 7 r. 80<br>396. 9 r. 50<br>397. 6 r. 40<br>398. 8 r. 4<br>399. 54<br>400. 40<br>401. 8 r. 4<br>402. 60<br>403. 35 r. 8<br>404. 7<br>405. 45 r. 2<br>406. 6 r. 2<br>407. 6 r. 12<br>408. 5 r. 90<br>409. 6 r. 50<br>410. 7 r. 80<br>411. 9 r. 50<br>412. 6 r. 40<br>413. 8 r. 4<br>414. 54<br>415. 40<br>416. 8 r. 4<br>417. 60<br>418. 35 r. 8<br>419. 7<br>420. 45 r. 2<br>421. 6 r. 2<br>422. 6 r. 12<br>423. 5 r. 90<br>424. 6 r. 50<br>425. 7 r. 80<br>426. 9 r. 50<br>427. 6 r. 40<br>428. 8 r. 4<br>429. 54<br>430. 40<br>431. 8 r. 4<br>432. 60<br>433. 35 r. 8<br>434. 7<br>435. 45 r. 2<br>436. 6 r. 2<br>437. 6 r. 12<br>438. 5 r. 90<br>439. 6 r. 50<br>440. 7 r. 80<br>441. 9 r. 50<br>442. 6 r. 40<br>443. 8 r. 4<br>444. 54<br>445. 40<br>446. 8 r. 4<br>447. 60<br>448. 35 r. 8<br>449. 7<br>450. 45 r. 2<br>451. 6 r. 2<br>452. 6 r. 12<br>453. 5 r. 90<br>454. 6 r. 50<br>455. 7 r. 80<br>456. 9 r. 50<br>457. 6 r. 40<br>458. 8 r. 4<br>459. 54<br>460. 40<br>461. 8 r. 4<br>462. 60<br>463. 35 r. 8<br>464. 7<br>465. 45 r. 2<br>466. 6 r. 2<br>467. 6 r. 12<br>468. 5 r. 90<br>469. 6 r. 50<br>470. 7 r. 80<br>471. 9 r. 50<br>472. 6 r. 40<br>473. 8 r. 4<br>474. 54<br>475. 40<br>476. 8 r. 4<br>477. 60<br>478. 35 r. 8<br>479. 7<br>480. 45 r. 2<br>481. 6 r. 2<br>482. 6 r. 12<br>483. 5 r. 90<br>484. 6 r. 50<br>485. 7 r. 80<br>486. 9 r. 50<br>487. 6 r.
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