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| **Investigating Prime Numbers** |
| The Goldbach Conjecture states that all **even numbers** greater than two can be written as the **sum** of two **prime numbers**. Show that this is true for all even numbers from 4 to 50.  |
| **4** | $$2+2$$ | **28** |  |
| **6** | $$3+3$$ | **30** |  |
| **8** | $$3+5$$ | **32** |  |
| **10** |  | **34** |  |
| **12** |  | **36** |  |
| **14** |  | **38** |  |
| **16** |  | **40** |  |
| **18** |  | **42** |  |
| **20** |  | **44** |  |
| **22** |  | **46** |  |
| **24** |  | **48** |  |
| **26** |  | **50** |  |
| Goldbach also suggested that all **integers** (whole numbers) **greater than five** can be written as the sum of **three prime** numbers.Show that this is true for all numbers from 6 to 25. |
| **6** | $$2+2+2$$ | **16** |  |
| **7** | $$2+2+3$$ | **17** |  |
| **8** |  | **18** |  |
| **9** |  | **19** |  |
| **10** |  | **20** |  |
| **11** |  | **21** |  |
| **12** |  | **22** |  |
| **13** |  | **23** |  |
| **14** |  | **24** |  |
| **15** |  | **25** |  |