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PRIME NUMBERS WORKSHEET-IV

1) Match the following:

Number	Number of Prime Factors
1. 415	a. 3
2. 997	b. 1
3. 732	c. 2

2) Cassie wants to read a mystery that has 435 pages. If she reads the same number of pages per day and the number is a prime number greater than 20, how many pages per day will she read?



3) Write or express 2018 as sum of two prime numbers (either same or unique).

4) State whether True or False:

Every even number greater than 2 can be expressed as the sum of two prime numbers, either same or unique.

5) Circle all the prime numbers:

18	47	33	82	69
97	21	55	95	23
74	73	72	71	70
7	17	27	37	47
57	67	77	87	97
56	75	63	36	93
89	98	100	2	99
91	81	71	61	52

6) Determine which of the following is prime.

- a) 549
- b) 297
- c) 191
- d) 537

7) Solve this riddle: I am a number whose prime factors are all of the prime numbers between 6 and 15. No factor is repeated. What number am I?

8) The area of the dining room at Katie's home is about 621 square feet. If the length of the one side is a prime number less than 25 and greater than 20, what are the dimensions of the room?



9) Find the common prime factors of 343 and 743.

10) Find out how many prime numbers are there between 50 to 1000?

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in an interesting way,
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"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

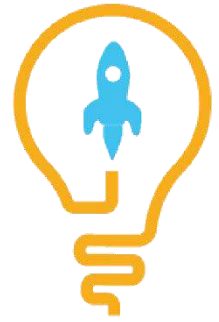
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	1--c; 2--b; 3--a																																								
2)	29 pages																																								
3)	$1009 + 1009$																																								
4)	True																																								
5)	<table style="width: 100%; text-align: center;"> <tbody> <tr> <td>18</td> <td>47</td> <td>33</td> <td>82</td> <td>69</td> </tr> <tr> <td>97</td> <td>21</td> <td>55</td> <td>95</td> <td>23</td> </tr> <tr> <td>74</td> <td>73</td> <td>72</td> <td>71</td> <td>70</td> </tr> <tr> <td>7</td> <td>17</td> <td>27</td> <td>37</td> <td>47</td> </tr> <tr> <td>57</td> <td>67</td> <td>77</td> <td>87</td> <td>97</td> </tr> <tr> <td>56</td> <td>75</td> <td>63</td> <td>36</td> <td>93</td> </tr> <tr> <td>89</td> <td>98</td> <td>100</td> <td>2</td> <td>99</td> </tr> <tr> <td>91</td> <td>81</td> <td>71</td> <td>61</td> <td>52</td> </tr> </tbody> </table>	18	47	33	82	69	97	21	55	95	23	74	73	72	71	70	7	17	27	37	47	57	67	77	87	97	56	75	63	36	93	89	98	100	2	99	91	81	71	61	52
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6)	c)																																								
7)	1001																																								
8)	23 ft × 27 ft																																								
9)	None																																								
10)	10																																								

FUN FACT

1. The largest prime number currently known is $282,589,933-1$, discovered in December 7, 2018 by a supercomputer volunteered by Patrick Laroche.
2. The well-known astronomer and science author Carl Sagan wrote a book in 1985 called "Contact," dealing with extraterrestrials trying to communicate with humans using prime numbers as signals
3. In mathematics, the **sieve of Eratosthenes** is an ancient algorithm used for finding all [prime numbers](#) up to any given limit.

