



HOFFKIDS MATH QUESTIONS (HMQ)

*JUST HIT FILE and PRINT the entire document. Work on it. Bring to class!

Question #	Topic	Math Questions
HMQ7	Prime #s	Cooper was reading a short book called The First Twenty Prime Numbers; a guide to 6th grade fun. On the first page of the book, the author challenges the reader to list the first twenty prime numbers. Now the challenge is on you! List the first twenty prime numbers in ascending order. _____ _____
HMQ8	Prime #'s	Malina's grandfather said, "My age is the only prime number between 55 & 60." PART A How old is Malina's grandfather? Answer: _____ years old PART B Explain on the lines below how you know your answer is correct. _____ _____ _____
HMQ9	Prime and Composite	Check off if the number is prime, composite, or neither. 1 _____ prime _____ composite _____ neither 2 _____ prime _____ composite _____ neither 0 _____ prime _____ composite _____ neither 51 _____ prime _____ composite _____ neither
HMQ10	Prime #'s	<p>*6th grade CHALLENGE PROBLEM* PROCEED WITH CAUTION...Are you up for it?</p> Joel and Jacob are brothers. This year both of their ages are prime numbers. Last year both their ages were composite numbers. Both of their ages will be composite numbers again for each of the next three years. If Joel and Jacob are both teenagers and not the same age, how old are they now? _____ and _____
HMQ11	GCF (list) Day 1	Use the list method from class to find the GCF of each pair of numbers 1) 14 and 35 _____ 2) 25 and 100
HMQ12	GCF Prime #'s Day 1	What is the Greatest Common Factor (GCF) of any 2 different prime numbers? _____

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Question #	Topic	Math Questions
HMQ13	Product of Primes (day 1)	<p>Write each number as a product of its prime factors. This is called PRIME FACTORIZATION. An example has been provided for you. Write #'s low to high.</p> <p>example: $36 = 2 \times 2 \times 3 \times 3$</p> <p>15: _____</p> <p>81: _____</p> <p>144: _____</p> <p>250: _____</p>
HMQ14	Factor Trees (day 1)	<p>Express 64 as its prime factorization (product of primes) using a factor tree.</p> <p style="text-align: center;">64</p> <p>prime factorization is: _____ (use the • for multiplication)</p>
HMQ15	Product of Primes (day 1)	<p>Which one of these is the prime factorization of 48? <i>multiple choice</i></p> <p>Use any method to find the answer.</p> <p>A) $4 \times 2 \times 2 \times 3$ B) $2 \times 2 \times 2 \times 3$ C) $2 \times 2 \times 2 \times 2 \times 3$ D) $2 \times 2 \times 2 \times 3 \times 3$</p>
HMQ16	PF Factor Trees (day 1)	<p>Express 96 as its prime factorization (product of primes) using a factor tree.</p> <p style="text-align: center;">96</p> <p>The prime factorization is: _____</p>
HMQ17	Product of Primes (day 1)	<p>400 written as a product of its prime factors is $2 \times 2 \times 2 \times 2 \times 5 \times 5$</p> <p>Write 800 as a product of its prime factors:</p> <p><i>(you do not, and should not, need a factor tree to get this answer!)</i></p> <p>_____</p>