

NAME: \_\_\_\_\_ Mr. Hoffman

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**HOFFKIDS MATH QUESTIONS (HMQ)**

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

Question #	Topic	Math Questions
HMQ12	Factor Trees (day 1)	Express 81 as its prime factorization (product of primes) using a factor tree. 81  prime factorization is: _____ (use the • for multiplication)
HMQ13	Factor Trees (day 1)	Express 64 as its prime factorization (product of primes) using a factor tree. 64  prime factorization is: _____ (use the • for multiplication)
HMQ14	Factor Trees (day 1)	Express 144 as its prime factorization (product of primes) using a factor tree. 144  prime factorization is: _____ (use the • for multiplication)
HMQ15	Factor Trees (day 1)	Express 250 as its prime factorization (product of primes) using a factor tree. 250  prime factorization is: _____ (use the • for multiplication)



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Question #	Topic	Math Questions
HMQ16	Product of Primes (day 1)	Which one of these is the prime factorization of 48? <i>multiple choice</i> Use any method to find the answer.  A) $2 \times 2 \times 3 \times 4$ B) $2 \times 2 \times 2 \times 3$ C) $2 \times 2 \times 2 \times 2 \times 3$ D) $2 \times 2 \times 2 \times 3 \times 3$
HMQ17	PF Factor Trees (day 1)	Mrs. Barth was explaining prime factorization to her class and made two errors below. Explain the two mistakes you see that she made below and then find the correct prime factorization of 108 in the space to the right.  <div style="text-align: center;"> <pre> graph TD     108 --- 9     108 --- 12     9 --- 3_1((3))     9 --- 3_2((3))     12 --- 6     12 --- 2     6 --- 3_3((3))     6 --- 3_4((3))                     </pre> </div> Prime factorization: $2 \times 3 \times 3 \times 9$  Mistake #1: _____  Mistake #2: _____  The correct prime factorization is: _____
HMQ18	Product of Primes (day 1)	400 written as a product of primes is $2 \times 2 \times 2 \times 2 \times 5 \times 5$ Write 800 as a product of primes: <i>(you do not, and should not, need a factor tree to get this answer!)</i>
HMQ19	Product of Primes (day 1)	2700 written as a product of prime factors is $2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 5$ Write 270 as a product of its prime factors: <i>(you do not, and should not, need a factor tree to get this answer!)</i> _____
HMQ20	Product of Primes (day 1)	<p style="text-align: center;"><b>**OPTIONAL CHALLENGE**</b></p> <p style="text-align: center;"><b>Will you impress Mr. Hoffman with extra effort? Go for it!</b></p> The prime factorization of 4,800 is $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5 \times 5$ Find the prime factorization of 1,200 (with little or no work) _____