

MATH

Name: _____

1) COMPLETE A FACTOR TREE FOR THESE NUMBERS IN AT LEAST TWO DIFFERENT WAYS:

64,

1014

2) COMPLETE A FACTOR TREE FOR THESE NUMBERS, AND WRITE THEM AS A PRODUCT OF POWERS, IN AS MANY WAYS AS POSSIBLE:

1296,

9604

3) 302,400 WITHOUT DIVIDING DETERMINE WHAT NUMBERS ARE FACTORS OF 302,400. EXPLAIN HOW YOU KNOW.(Use your divisibility rules)

4) A) LIST IN ORDER THE FIRST 10 PRIME NUMBERS

B) GIVE TWO PRIME NUMBERS BETWEEN
130 AND 150

5) HOW WOULD YOU ORGANIZE TABLE GROUPS IF YOU
WERE EXPECTING 238 PEOPLE?

6) Draw factorgrams for the following numbers on the back of this
page: a) 81 b) 144

7) Find the GCF for the following sets of numbers in as many
ways as possible: (explain and show your work)

a) 36, 54 b) 120, 75

c) 144, 48, 72

8) Three consecutive numbers have a sum of 144. What are they?

9) Use short division to answer the following: a) $3735 \div 5$

b) $1472 \div 8$ (show your work)

10) a) Explain an easy way to add the following numbers together:

$$15 + 93 + 7 + 64 + 36 + 85 =$$

b) Provide an estimate, and the actual answer for $29 \times 31 =$

c) Explain how you would calculate the following in your head: $475 \div 25 =$

11) Tom made \$225 in one week, and Joe made \$165. If they each made the same hourly wage and it was more than \$10 per hour, how many hours did Joe and Tom each work?

12) List all of the factors in order from least to greatest for the following numbers:

a) 100

b) 72

c) 1200

13) GCF challenge questions, find the GCF for the following pairs of numbers:

a) 714 238

b) 810 486

c) 741 1311