_____ Name: _____

(Parent Signature) Date: _____

6th Grade Practice Sheet 2

Show all work - ***NO CALCULATORS!***

1. Factor and express as a product of prime factors with exponents. 56	6. Factor and express as a product of prime factors with exponents. 42
2. Evaluate $9 \times 7 + 3$	7. Evaluate $56 \div 4 + 3$
3. Find the GCF of: $28\ and\ 42$	8. Find the GCF of: $100\ and\ 75$
4. Find the LCM of: $25\ and\ 10$	9. Find the LCM of: $9\ and\ 36$
5. Find the sum: $\frac{2}{3} + \frac{3}{5}$	10. Find of difference: $\frac{7}{8} - \frac{4}{5}$

11. Find the sum of:

$5392 \; and \; 797$

16. Find the difference of:

$67{,}322 \; and \; 48{,}721$

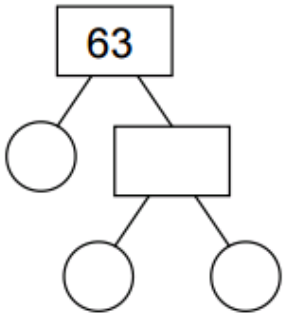
12. Find the product of:

$29 \; and \; 36$

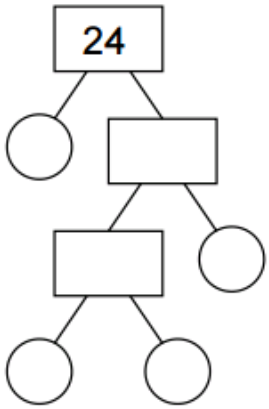
17. Find the quotient of:

$729 \; and \; 9$

13. Complete the factor tree.



18. Complete the factor tree.



14. Write each fraction as a decimal.

$\frac{9}{20}$ $\frac{13}{25}$

19. Write each decimal as a simplified fraction:

0.2 0.36

15. Simplify each fraction.

$\frac{6}{30}$ $\frac{42}{63}$

20. There are 464 campers staying at Camp 'Whynot' this summer. There are 8 campers in each cabin. How many cabins are occupied? (Show your equation.)

Show how you made your choice.

21) The lunchroom prepares sandwiches for classes going on field trips. There are 5 classes going on field trips. Each class has 32 students. Which expression below shows the number of sandwiches that will be needed?

a. $5 + 32$ b. 5×32

c. $5 - 32$ d. $5 \div 32$

22) Which of the following lists shows all prime factors of the number 36 listed with exponential notation?

a. $1, 2, 3, 4, 6, 9, 12, 18, 36$ b. $2, 2, 3, 3$

c. $2^2, 3^2$ d. $4, 9$

23) Which of the following lists shows all prime factors of the number 45 listed with exponential notation?

a. $3^2, 5$ b. $1, 3, 5, 9, 15, 45$

c. $3, 3, 5$ d. $3, 15$

24) Which of the following lists shows all the factors of the number 54?

a. 1, 2, 3, 6, 9, 18, 27, 54 b. 2, 3, 6, 9, 18, 27

c. 2, 3, 6, 7, 9, 18, 27 d. 2, 3, 6, 5, 7, 9, 18, 27

25) Which list shows all the factors of 26?

a. 1, 26 b. 2, 13

c. 1, 2, 13, 26 d. 1, 4, 6, 26

Passage for questions 26 to 27: Cathy glued strips of wood together. One piece was $\frac{3}{8}$ inches thick. Another piece was $\frac{5}{8}$ inches thick. The last piece was $\frac{2}{8}$ inches thick.

26) If she stacks all three pieces of wood on top of each other, how thick is the whole piece?

a. $\frac{3}{4}$ in.

b. $1\frac{1}{4}$ in.

c. $1\frac{1}{8}$ in.

d. $\frac{9}{20}$ in.

27) What is the difference in thickness between the $\frac{3}{8}$ in. piece and the $\frac{2}{8}$ in. piece?

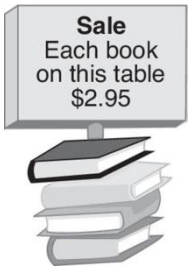
a. $\frac{1}{4}$ in.

b. $\frac{3}{4}$ in.

c. $\frac{5}{8}$ in

d. $\frac{1}{8}$ in.

28) Which is the **greatest** number of books that can be purchased with $10?



a. 2

b. 3

c. 4

d. 5

29) In the first hour a newsstand was open, people bought 40 newspapers and 6 magazines. The newspapers sold for $1 each and the magazines for $3 each. How much did the newsstand make in that first hour?

a. $126

b. $60

c. $4

d. $58

30) The table shows the midday temperature for each of five days during one week last winter. Which lists the weekdays in order from the day with the lowest midday temperature to the day with the highest midday temperature?

a. Friday, Wednesday, Tuesday, Thursday, Monday

b. Tuesday, Wednesday, Friday, Thursday, Monday

c. Friday, Tuesday, Wednesday, Thursday, Monday

d. Tuesday, Friday, Wednesday, Thursday, Monday

Midday Temperatures

Day	Temperature (°F)
Monday	7
Tuesday	-2
Wednesday	-1
Thursday	4
Friday	0