

Unit 2 Study Guide [This is the second Half.

The first half was handed out yesterday]

Student _____

Class _____

Date _____

11. What is the prime factorization of 8?

A. 2^3

B. 2^4

C. 4^2

D. 4^4

12. What is the prime factorization of 52?

A. $2^2 \times 13$

B. $2^3 \times 13$

C. $3^2 \times 13$

D. 4×13

13. Which expression is equivalent to $15 + 35$?

A. $10(5 + 35)$

B. $10(5 + 25)$

C. $5(3 + 35)$

D. $5(3 + 7)$

14. What is the greatest common factor for 96 and 57?

A. 2

B. 3

C. 4

D. 8

15. What is the greatest common factor of 10 and 12?

A. 1

B. 2

C. 3

D. 4

16. What is the least common multiple of 8 and 12?

A. 2

B. 4

C. 24

D. 36

17. Mr. Bender is putting his middle school band students into groups.

- There are 32 seventh graders and 40 eighth graders in the band.
- Each group will have the same number of seventh grade students.
- Each group will have the same number of eighth grade students.
- Every student will be in a group.

What is the largest number of groups Mr. Bender can create?

A. 2

B. 4

C. 8

D. 16

18. At a store, markers are sold in packages of 12 and pens are sold in packages of 8. What is the LEAST number of markers and pens Rick needs to buy to have an equal number of markers and pens?

A. 12

B. 20

C. 24

D. 40

19. Samantha baked a cake for her grandmother.

Samantha ate $\frac{1}{8}$ of the cake, and her

grandmother ate $\frac{1}{4}$ of the cake. How much of the cake is left?

A. $\frac{3}{8}$

B. $\frac{2}{8}$

C. $\frac{5}{8}$

D. $\frac{1}{8}$

20.

Tyler spent $\frac{1}{2}$ of an hour reading before

dinner. After dinner, he read another $1\frac{1}{8}$ hours. What is the total amount of time Tyler spent reading?

A. $\frac{5}{8}$ hour

B. $1\frac{1}{4}$ hours

C. $1\frac{5}{8}$ hours

D. $2\frac{1}{4}$ hours