

# Ged: Chapter 18

Commented [1]: Overall, Good work!

## Practice quiz

1. Evaluate the expression  $8 - 27$ .

- A. - 35
- B. - 19
- C. 0
- D. 19

Evaluate the expression  $102 + 3 + 84 + 27$ .

- A. 105
- B. 216
- C. 250
- D. 513

3. How much change should a customer expect if she is buying a \$53 item and hands the cashier two \$50 bills?

- A. \$3
- B. \$47
- C. \$57
- D. \$100

4. When dealing with a series of multiplication and division operations, which is the correct approach to evaluating them?

- A. Evaluate all division operations first.
- B. Evaluate the expression from left to right.
- C. Evaluate all multiplication operations first.

Use the PEMDAS mnemonic. Start with parentheses. Then, do multiplication / division from left to right. Finally, do addition / subtraction from left to right. P. 1256

5. Evaluate the expression  $28 \times 43$ .

- A. 71
- B. 196
- C. 1,204
- D. 1,960

6. Evaluate the expression  $3 + 1 - 5 + 2 - 6$ .

- A. - 9
- B. - 5
- C. 0
- D. 17

Commented [2]: The correct answer is B. See the example.

$$3+1-5+2-6$$

Handwritten calculation showing the simplification of  $3+1-5+2-6$  to  $-5$ . The steps are:  $3+1=4$ ,  $4-5=-1$ ,  $-1+2=1$ ,  $1-6=-5$ . The final result  $-5$  is boxed.

7. Which number is a factor of 128?

- A. 3
- B. 6
- C. 12
- D. 16

To test whether one number is a factor of a second number, divide the second by the first. If the quotient is whole, it is a factor. If the quotient is not whole (or it has a remainder), it is not a factor. p.1263. (Factors and Multiples)

8. How many prime factors does 42 have?

- A. 1
- B. 2
- C. 3
- D. 4

Prime factors is a number that is only divisible by 1 and the number itself. p.1269(Factors and Multiples)

9. If a factor tree for a prime factorization has four leaves — 3, 2, 5, and 7 — what is the number being factored?

- A. 7
- B. 5
- C. 210
- D; not enough information

The numbers in the factor tree are either “branches” (if they are connected downward to other numbers) or “leaves” (if they have no further downward connections). The leaves constitute all the prime factors of the original number: when multiplied together, their product is that number.P.1272

10. Convert 16,000 ounces to tons.

- A. 0.5 ton
- B. 1 ton
- C. 1.5 tons
- D. 2 tons

11. Convert 99 meters to kilometers.

- A. 0.0099 kilometers
- B. 0.099 kilometers
- C. 0.9 centimeters
- D. 9.9 centimeters

**Commented [3]:** Correct answer is B. You'll need to divide 99/1000.

$$99m \times \frac{1km}{1,000m} = \frac{99}{1,000} = 0.099km$$

12. Identify 12:45 a. m. in military time.

- A. 0045
- B. 0145
- C. 1245
- D. 1345

From 1:00 p. m. to 11:59 p. m., add 12 hours to obtain military time. For example, 4:07 p. m. in 12-hour clock time is 1607 in military time. P. 1287(Standards of measures)