

10. Which expression is equivalent to  $2,000 - (200) - 0.000$ ?

- A. 1,800  
B. 1,700  
C. 1,900  
D. 2,000

11. Which expression is equivalent to  $\frac{1}{2} \left( \frac{1}{3} \right) - 0.001$ ?

- A.  $\frac{10}{33}$   
B.  $\frac{10}{32}$   
C.  $\frac{10}{31}$   
D.  $\frac{10}{30}$

12. Which of the following expressions is equivalent to  $4(20 + 1)$ ?

- A.  $4 + 20 + 1$   
B.  $20 + 4 + 1$   
C.  $4 + 4 + 20$   
D.  $20 + 4 + 4 + 1$

13. You are filling baskets using 10 green eggs, 10 orange eggs, and 14 blue eggs. What is the greatest number of baskets that you can fill so that the baskets are identical and there are no eggs left over?

- A. 2  
B. 3  
C. 4  
D. 10

14. A hallway was built using blocks of varying blocks. (0.75)



Part A How much longer is the blue in the length of the hallway than the width of the hallway? Show your work and explain your reasoning.

Part B How many times longer is the length of the hallway than the width of the hallway? Show your work and explain your reasoning.

## Answers

10. B

11. C

12. D

13. C

14. Part A  $1\frac{1}{4}$  units

Part B 3 times longer

## Item Analysis Summary

10. B. 100%

A. The student does not take the negative in the subtraction.

B. The student subtracts the 200 but does not subtract the 0.000, instead, multiplying them to get zero and leaving the rest of the place.

C. The student does not subtract correctly in the multiplication and final place.

11. C. 100% The student incorrectly subtracts the denominator by subtracting the numerators and multiplying the denominator.

B. Correct answer.

C. The student incorrectly subtracts the denominator by moving the denominator of the denominator.

D. The student incorrectly subtracts the denominator by dividing both the numerator and the denominator.

12. D. 100% The student does not use the order of operations correctly.

B. Correct answer.

C. The student does not use the order of operations correctly.

D. The student does not use the order of operations correctly.

13. C. 100% The student does not find the greatest common factor.

B. The student finds the greatest common factor but does not divide the numbers.

D. The student does not find the greatest common factor.

E. Correct answer.

14. **Answer:** The student demonstrates a thorough understanding of multiplying and dividing mixed numbers and whole numbers. The student explains the length of the hallway and width correctly, converts mixed numbers to  $\frac{11}{4}$  and  $\frac{1}{4}$  for this is  $\frac{11}{4} - \frac{1}{4} = \frac{10}{4} = 2\frac{1}{2}$  (converting to tenths). The student shows a variety of strategies used for both parts and provides clear and complete explanations.

**Answer:** The student demonstrates an understanding of multiplying and dividing mixed numbers and whole numbers, but the student's work is not completely accurate in converting the final answer to mixed numbers.

**Answer:** The student demonstrates a partial understanding of multiplying and dividing mixed numbers and whole numbers. The student's work and explanations demonstrate a lack of general understanding.

**Answer:** The student demonstrates a minimal understanding of multiplying and dividing mixed numbers and whole numbers. The student's response is incomplete and demonstrates flaws.

**Answer:** The student correctly converted a composite number to a mixed number but incorrectly converted the denominator. The student demonstrates a minimal understanding of multiplying and dividing mixed numbers and whole numbers.

# Big Ideas Math Green Answer Key

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