

## Chapter One Cumulative Assessment Homework

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Please record your answers in the table below.

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16	

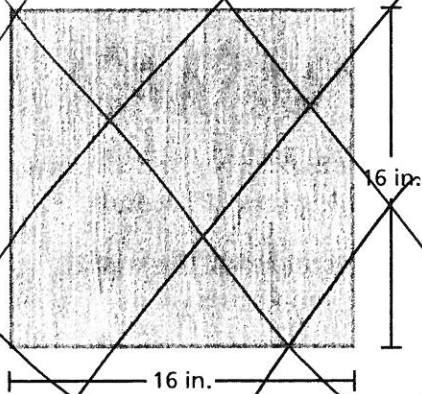


# 1 Cumulative Assessment

1. You are making identical bagel platters using 40 plain bagels, 30 raisin bagels, and 24 blueberry bagels. What is the greatest number of platters that you can make if there are no leftover bagels?

A. 2  
B. 6  
C. 8  
D. 10

2. The top of an end table is a square with a side length of 16 inches. What is the area of the tabletop?



F.  $16 \text{ in.}^2$   
G.  $32 \text{ in.}^2$   
H.  $64 \text{ in.}^2$   
I.  $256 \text{ in.}^2$

3. Which number is equivalent to the expression below?

$$3 \cdot 2^3 - 8 \div 4$$

A. 0  
B. 4  
C. 22  
D. 214

4. What is the least common multiple of 14 and 49?



**Test-Taking Strategy**  
**Solve Directly or Eliminate Choices**

How many hyenas are  $5 - 2^2 - 1$  hyenas?  
(A) 0 (B) 2 (C) 8 (D) 10

Survival strategy: A

"Which strategy would you use on this one: solve directly or eliminate choices?"

5. Which number is equivalent to the expression  $7059 \div 301$ ?

~~F. 23~~

~~H.  $23 \frac{136}{301}$~~

~~G.  $23 \frac{136}{7059}$~~

~~I. 136~~

6. You are building identical displays for the school fair using 65 blue boxes and 91 yellow boxes. What is the greatest number of displays you can build using all the boxes?

A. 13

C. 91

B. 35

D. 156

7. You hang the two strands of decorative lights shown below.



**Strand 1:** changes between red and blue every 15 seconds



**Strand 2:** changes between green and gold every 18 seconds

Both strands just changed color. After how many seconds will the strands change color at the same time again?

F. 3 seconds

H. 90 seconds

G. 30 seconds

I. 270 seconds

8. Which expression is equivalent to  $\frac{29}{63}$ ?

A.  $\frac{28}{60} + \frac{1}{3}$

C.  $\frac{5}{21} + \frac{2}{9}$

B.  $\frac{4}{27} + \frac{25}{36}$

D.  $\frac{22}{47} + \frac{7}{16}$

9. Which expression is *not* equivalent to 32?

F.  $6^2 - 8 \div 2$

H.  $30 + 4^2 \div (2 + 6)$

G.  $30 \div 2 + 5^2 - 8$

I.  $8^2 \div 4 - 2$

10. Which number is equivalent to the expression  $148 \times 27$ ?

A. 3696

C. 3946

B. 3896

D. 3996



11. You have 60 nickels, 48 dimes, and 42 quarters. You want to divide the coins into identical groups with no coins left over. What is the greatest number of groups that you can make?

12. Erica was evaluating the expression in the box below.

$$\begin{aligned}56 \div (2^3 - 1) \times 4 &= 56 \div (8 - 1) \times 4 \\ &= 56 \div 7 \times 4 \\ &= 56 \div 28 \\ &= 2\end{aligned}$$

What should Erica do to correct the error that she made?

- F. Divide 56 by 8 because operations are performed left to right.
- G. Multiply 1 by 4 because multiplication is done before subtraction.
- H. Divide 56 by 7 because operations are performed left to right.
- I. Divide 56 by 8 and multiply 1 by 4 because division and multiplication are performed before subtraction.

13. Find the greatest common factor for each pair of numbers.



10 and 15

10 and 21

15 and 21

What can you conclude about the greatest common factor of 10, 15, and 21? Explain your reasoning.

14. Which number is *not* a perfect square?

A. 64

C. 96

B. 81

D. 100

15. Which number pair has a least common multiple of 48?

F. 4, 12

H. 8, 24

G. 6, 8

I. 16, 24

16. Which number is equivalent to the expression below?

$$\frac{3(6 + 2^2) + 2}{8}$$

A. 3

C. 7

B. 4

D.  $24\frac{1}{4}$

