MCAS Prep
Grade 4 Mathematics

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Edited by Ralph R. Kantrowitz

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Number Sense and Operations

1. Which number is the same as one million, fifteen thousand, four hundred thirty-two?

   A. 15,400,032
   B. 1,015,432
   C. 150,432
   D. 15,432

2. Which number is the same as eight hundred fifty-three thousand, one?

   A. 85,301
   B. 853,001
   C. 853,100
   D. 8,531,000

3. Which of the following means the same as 34,961?

   A. 30,000 + 4,000 + 900 + 60 + 1
   B. 3,000 + 4,000 + 90 + 6 + 1
   C. 3 + 4 + 9 + 6 + 1
   D. 30,000 + 400 + 900 + 600 + 1

4. Which of the following means the same as three tens and 14 ones?

   A. 44
   B. 414
   C. 3,014
   D. 4,014

5. Which of the following means the same as ten hundreds and six tens?

   A. 106
   B. 160
   C. 1,060
   D. 1,006

6. The number 11,427 can be regrouped as

   A. eleven thousands, four hundreds, three tens, and seventeen ones.
   B. one ten thousand, one thousand, three hundreds, eleven tens, and seventeen ones.
   C. one ten thousand, two thousands, two hundreds, and seven ones.
   D. ten thousands, twelve hundreds, six tens, and seven ones.

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13. Which of the following means the same as seven hundreds and five tens?

A. 75
B. 715
C. 750
D. 7,500

14. Which of the following means the same as five tens and 16 ones?

A. 66
B. 616
C. 6,016
D. 5,015

15. Which of the following means the same as eleven hundreds and eight tens?

A. 118
B. 180
C. 1,180
D. 1,108

16. Which of the following means the same as 174,865?

A. 10,000 + 7,000 + 4,000 + 80 + 60 + 5
B. 100,000 + 7,000 + 4,000 + 800 + 600 + 5
C. 100,000 + 70,000 + 4,000 + 800 + 60 + 5
D. 100,000 + 700 + 400 + 80 + 60 + 5

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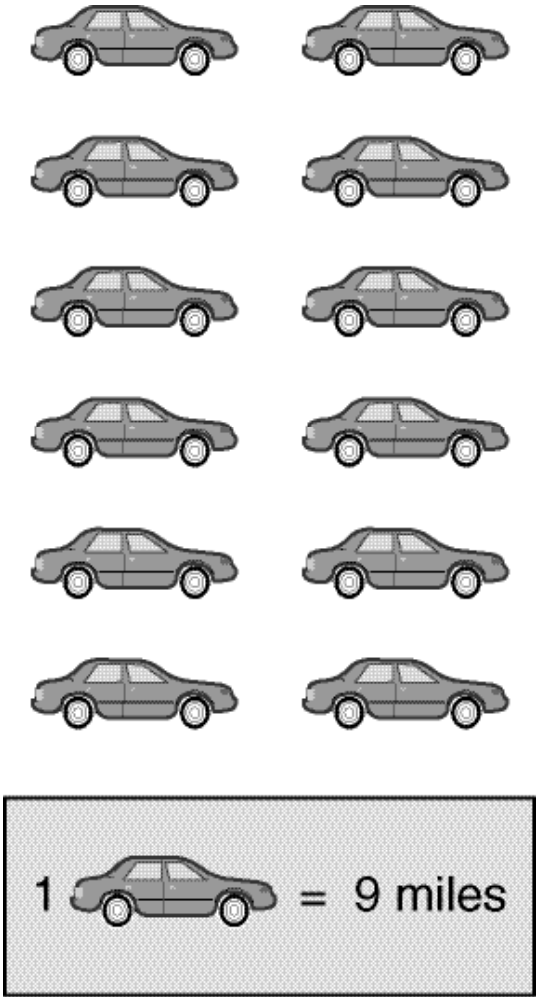

147. How many total miles does the above diagram show?

A. 90 miles
B. 108 miles
C. 81 miles
D. 124 miles

148. The diagram above shows how many games the Ivy Athletic Group played this year. In which sport were the most games played?

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19 x 81 = 729

160. Which of the following expressions can be used to find out if the above number sentence is correct?

A. 729 ÷ 19 + 81
B. (19 + 81) x 729
C. 729 x 19
D. 729 ÷ 81

161. If 18 x 7 = 126, then which of the following is also true?

A. 126 x 7 = 18
B. 9 x 3 = 63
C. 126 ÷ 7 = 18
D. 19 x 8 = 130

475 ÷ 19 = 25

162. Which of the following expressions can be used to find out if the above number sentence is correct?

A. 19 + 25
B. 19 ÷ 25
C. 19 - 25
D. 19 x 25

163. If 312 ÷ 4 = 78, then which of the following is also true?

A. 312 x 4 = 78
B. 312 ÷ 78 = 4
C. 390 ÷ 5 = 87
D. 5 x 87 = 390

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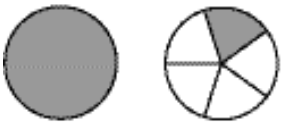
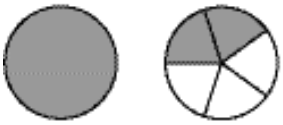
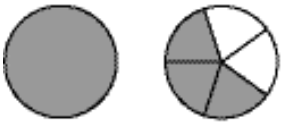
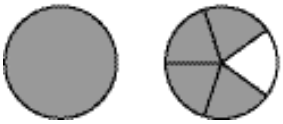
394. $\frac{4}{5} + \frac{3}{5} =$

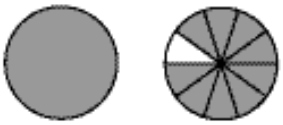
A. 

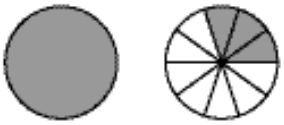
B. 

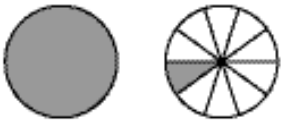
C. 

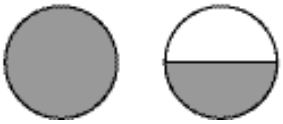
D. 

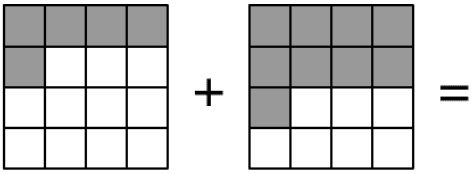
396. $\frac{8}{10} + \frac{7}{10} =$

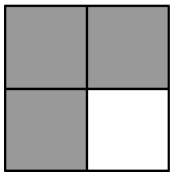
A. 

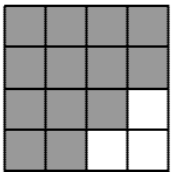
B. 

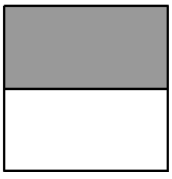
C. 

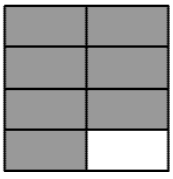
D. 

395. 

A. 

B. 

C. 

D. 

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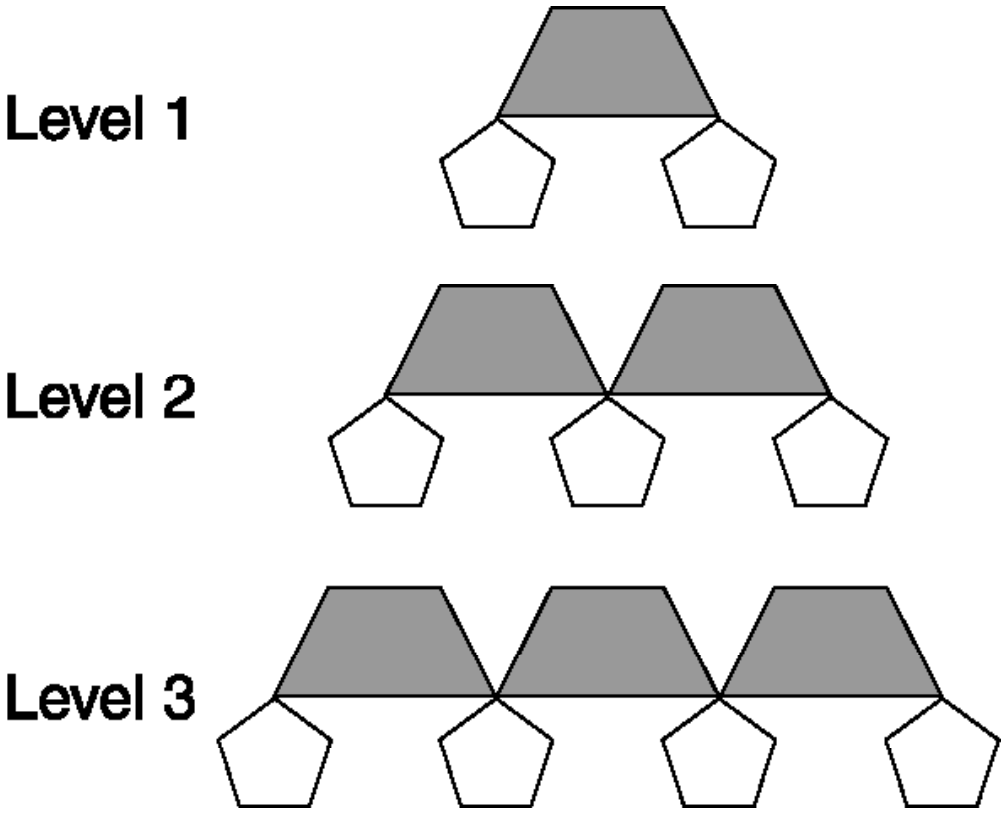
Answer the following questions based on the patterns shown below.



412. How many trapezoids would be needed to build Level 7?

413. How many pentagons would be needed to build Level 8?

414. At what level would there be fifteen trapezoids in the pattern?

415. At what level would there be eleven pentagons in the pattern?

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540. Which In-Out table follows the rule below?

In x 7 = Out

A.

In	Out
10	70
11	77
12	84
13	91

C.

In	Out
10	7
11	8
12	9
13	10

B.

In	Out
10	17
11	18
12	19
13	20

D.

In	Out
10	3
11	4
12	5
13	6

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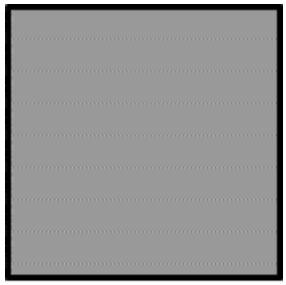
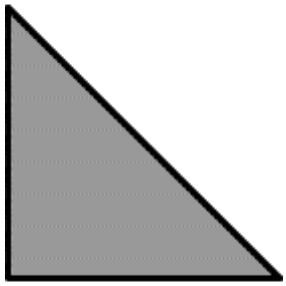
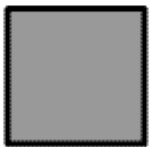


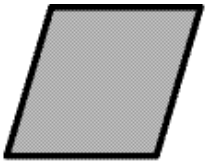
649. Which of the following shapes could have been used to make the square shown above?

A. 

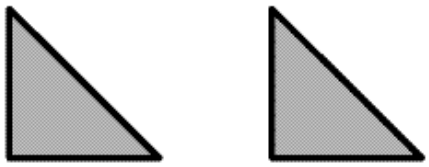
B.

C. 

D. All of the above shapes could have been used.

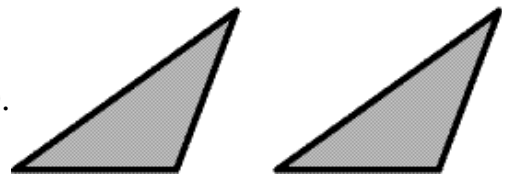


650. Which of the following pair of triangles could have been used to make the shape shown above?

A. 

B.

C.

D. 

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