

NAEP Released Items Aligned to the Iowa Core

3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.

ZOO ATTENDANCE

<u>Day</u>	<u>Adults</u>	<u>Children</u>
Thursday	757	649
Friday	774	742
Saturday	792	788
Sunday	801	726

The table shows the number of adults and children who went to the zoo.  
On what day was the number of adults who went to the zoo about the same as the number of children who went to the zoo?

- A. Thursday
- B. Friday
- C. Saturday
- D. Sunday

2011-4-12-2

Source: National Assessment of Educational Progress, 2011, Grade 4 Mathematics Assessment.

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The weight of an object is 1,700 pounds, rounded to the nearest hundred. Of the following, which could be the actual weight of the object?

- A. 1,640
- B. 1,645
- C. 1,649
- D. 1,749
- E. 1,751

2007-8-11-1

Source: National Assessment of Educational Progress, 2007, Grade 8 Mathematics Assessment.

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The length of a dinosaur was reported to have been 80 feet (rounded to the nearest 10 feet). What length other than 80 feet could have been the actual length of this dinosaur?

Answer: \_\_\_\_\_ feet

1992-4-15-9  
1992-8-15-9

Source: National Assessment of Educational Progress, 1992, Grade 4 and Grade 8 Mathematics Assessments.

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**3.NBT.2** Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

When you subtract one of these numbers from 900, the answer is greater than 400. Which number is it?

- A. 712
- B. 667
- C. 579
- D. 459

1990-4-7-17

Source: National Assessment of Educational Progress, 1990, Grade 4 Mathematics Assessment.

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The sum of three numbers is 173. If the smallest number is 23, could the largest number be 62?

Yes       No

Explain your answer in the space below.

2007-8-9-9

Source: National Assessment of Educational Progress, 2007, Grade 8 Mathematics Assessment.

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Subtract:

$$\begin{array}{r} 972 \\ - 46 \\ \hline \end{array}$$

2005-4-4-1  
2005-8-4-1

Source: National Assessment of Educational Progress, 2005, Grade 4 and Grade 8 Mathematics Assessments.

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A club needs to sell 625 tickets. If it has already sold 184 tickets to adults and 80 tickets to children, how many more does it need to sell?

2005-4-4-8  
2005-8-4-8

Source: National Assessment of Educational Progress, 2005, Grade 4 and Grade 8 Mathematics Assessments.

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Add:

$$\begin{array}{r} 238 \\ + 462 \\ \hline \end{array}$$

- A. 600
- B. 690
- C. 700
- D. 790

2003-4-6-1  
2003-8-6-1

Source: National Assessment of Educational Progress, 2003, Grade 4 and Grade 8 Mathematics Assessments.

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This question requires you to show your work and explain your reasoning. You may use drawings, words, and numbers in your explanation. Your answer should be clear enough so that another person could read it and understand your thinking. It is important that you show all your work.

In a game, Carla and Maria are making subtraction problems using tiles numbered 1 to 5. The player whose subtraction problem gives the largest answer wins the game.

Look at where each girl placed two of her tiles.

Carla

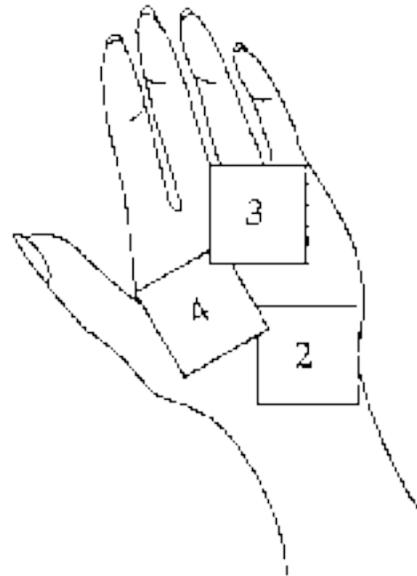
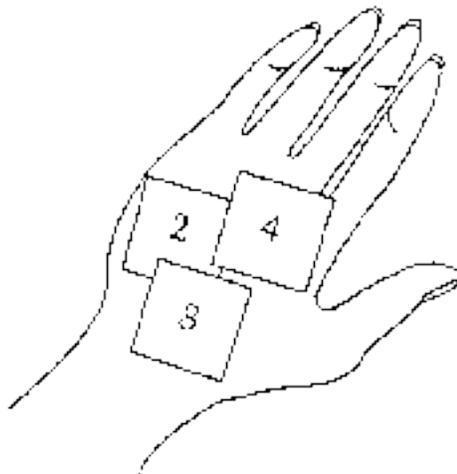
1		
-	5	

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Maria

		5
-		1

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Who will win the game? \_\_\_\_\_

By how much would 217 be increased if the digit 1 were replaced by a digit 5?

- A. 4
- B. 40
- C. 44
- D. 400

1992-4-5-12  
1992-8-5-12

Source: National Assessment of Educational Progress, 1992, Grade 4 and Grade 8 Mathematics Assessments.

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503 - 207 =

- A. 206
- B. 296
- C. 304
- D. 396

1992-4-7-1  
1992-8-7-1

Source: National Assessment of Educational Progress, 1992, Grade 4 and Grade 8 Mathematics Assessments.

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**3.NBT.3** Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g.,  $9 \times 80$ ,  $5 \times 60$ ) using strategies based on place value and properties of operations.