The Common Core State Standards

What Are the Standards?
The Common Core State Standards have been adopted by most U.S. states. They were developed by a state-led initiative to make sure all students are prepared for success in college and in the global, twenty-first century workforce. They provide a clear understanding of what students are expected to learn in English language arts and mathematics.

These new learning standards for your child are:

- Rigorous.
- Based on the best available evidence and research.
- Aligned with college and work expectations.
- Benchmarked to the highest educational standards from around the world.

What Do the English Language Arts Standards Mean for My Student?
In grade 7, English language arts standards focus on reading, writing, speaking and listening, and language skills (grammar and usage).

These standards set expectations for what it means to be a skilled reader and writer in the twenty-first century. They provide strategies for reading fiction and nonfiction closely and attentively. They help students look for evidence and make critical judgments about the vast amount of print and digital information available.

What Do the Mathematics Standards Mean for My Student?
Examples of grade 7 mathematics standards include geometry (solving problems with area, surface area, and angles), and statistics and probability (comparing two populations).

These standards increase the depth and focus of math topics studied in each grade. Instead of sampling a wide variety of skills each year, students work to develop deep understanding and mastery of a few concepts.
How to Use This Book

Time spent practicing for standardized tests will benefit your child greatly. With the adoption of Common Core State Standards by most U.S. states, educators are relying more than ever on test results to compare your child’s progress with that of others around the nation and the world. The resources in this book will help ease anxieties and prepare your child for test day.

What’s Inside?

• **Lesson pages** contain sample questions and examples related to a specific skill. The assumption is that your student has received prior instruction on the topics. These pages can provide focused practice.

• **Sample tests** are shorter tests with questions about one subtopic.

• **Practice tests** are comprehensive tests with questions about the entire content area.

Practice Options

Choose how you will use the materials to meet the needs of your student.

• Select pages matching the skills your student needs to practice most.

• Assign lesson pages for practice throughout the week. End the week with a sample or practice test related to those skills.

• Administer a timed practice test in a quiet setting. For a seventh grade student, allow 1.08 minutes per question. After the test, check answers together and talk about what was most difficult.

Test-Taking Clues

• Look for the symbol shown above throughout the book. Talk about the clues with your child.

• Read and review directions and examples. Talk about how test questions look and point out words and phrases that often appear in directions.

• Skip difficult questions, returning to them if time allows.

• Guess at questions you do not know.

• Answer all the questions.

• Try to stay relaxed and approach the test with confidence!
Lesson 1: Synonyms
Directions: Read each item. Choose the answer that means the same or about the same as the underlined word.

A. make a pledge
   A. profit
   B. trip
   C. promise
   D. comment

B. visualize the scene
   F. forget
   G. enjoy
   H. imagine
   J. recall

If an answer is too difficult, skip it and move on to the next item. Come back to the skipped items later.

Practice

1. precise measurement
   A. accurate
   B. incorrect
   C. approximate
   D. unnecessary

2. pleasant encounter
   F. entertainment
   G. meeting
   H. weather
   J. vacation

3. reserve a table
   A. clear
   B. save
   C. polish
   D. find

4. preceded the wedding
   F. after
   G. enjoying
   H. before
   J. attending

5. constant interruption
   A. attention
   B. thoughts
   C. intrusion
   D. motion

6. invented the automobile
   F. created
   G. preceded
   H. allowed
   J. initiated

7. recently updated
   A. joined
   B. modernized
   C. learned
   D. cloned

8. an immediate response
   F. unequaled
   G. unhurried
   H. instantaneous
   J. interesting
**Lesson 2: Antonyms**

**Directions:** Read each item. Choose the answer that means the opposite of the underlined word.

<table>
<thead>
<tr>
<th></th>
<th>A. cheerful attitude</th>
<th>B. gentle disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A. unhappy</td>
<td>F. large</td>
</tr>
<tr>
<td></td>
<td>B. joyful</td>
<td>G. ungrateful</td>
</tr>
<tr>
<td></td>
<td>C. indifferent</td>
<td>H. violent</td>
</tr>
<tr>
<td></td>
<td>D. silent</td>
<td>J. breezy</td>
</tr>
</tbody>
</table>

If you are unsure if your answer is correct, make your best guess.

**Practice**

1. ancient civilizations
   - A. recent
   - B. old
   - C. immediate
   - D. destroyed

2. found the handout
   - F. established
   - G. misplaced
   - H. wrote
   - J. invented

3. omit information
   - A. include
   - B. examine
   - C. exclude
   - D. find

4. lush jungle
   - F. thick
   - G. dark
   - H. barren
   - J. unexplored

5. withheld funds
   - A. allowed
   - B. updated
   - C. adjusted
   - D. contributed

6. conceal the answer
   - F. reveal
   - G. hide
   - H. share
   - J. discuss

7. inert ingredient
   - A. added
   - B. stirred
   - C. flour
   - D. active

8. minimize problems
   - F. increase
   - G. decrease
   - H. challenging
   - J. word

STOP
**READING: VOCABULARY**

**SAMPLE TEST**

**Directions:** Read each item. Choose the answer that means the same or about the same as the underlined word.

**Examples**

A. The village has only one school.
   - A. city
   - B. district
   - C. country
   - D. hamlet

B. When the employee stole money, he was corrupt.
   - F. dishonest
   - G. truthful
   - H. helpful
   - J. prosecuted

For numbers 1–2, read each item. Choose the answer that means the same or about the same as the underlined word.

1. Nick insisted that his friend read the book.
   - A. regarded
   - B. answer
   - C. pretended
   - D. urged

2. Individuals within the group had different points of view.
   - F. enabled
   - G. similar
   - H. varied
   - J. controlled

For numbers 3–6, read each item. Choose the answer that means the opposite of the underlined word.

3. That chemical is volatile!
   - A. stable
   - B. explosive
   - C. useful
   - D. puzzling

4. Joshua was filled with sorrow when his dog died.
   - F. danger
   - G. joy
   - H. passion
   - J. anger

5. How many answers were correct?
   - A. wrong
   - B. right
   - C. difficult
   - D. justified

6. It is questionable if it will rain on Saturday.
   - F. doubtful
   - G. uncertain
   - H. inevitable
   - J. possible
For numbers 7–10, choose the correct meaning for the underlined word.

7. When we eat, we ___ food.
   A journal  B absorb  C inhale  D chew

8. Look at the picture on the computer ___.
   F album  G supervisor  H system  J screen

9. Keep a ___ of your daily activities.
   A autobiography  B record  C periodical  D index

10. That word adds ___ to your sentence!
    F pungency  G drinks  H nothing  J power

For numbers 11–14, find the word that fits each blank the best.

11. We stayed at a ________ hotel, and we took a beach walk each day.
    A seaside  B mountain  C resort  D cheap

12. We got lost because we traveled a ________ way.
    F long  G slow  H special  J roundabout

13. He is so ________ that people enjoy spending time with him.
    A boring  B unfriendly  C congenial  D unhappy

14. The energy from the sun is ________ because it never stops shining.
    F hot  G constant  H dying  J warm
Lesson 1: Numeration

Directions: Read and work each problem. Find the correct answer.

Examples

A. Which of these numbers is a common multiple of 4, 6, and 8?
   - A 22
   - B 24
   - C 32
   - D 18

B. Which of these is smaller than −6
   - F 4
   - G −4
   - H −8
   - J 0

Practice

1. Which point is at \( \frac{1}{2} \) on this number line?
   - A point at \( \frac{1}{2} \) on the number line is
   - A A
   - B B
   - C C
   - D D

2. What number is expressed by \((3 \times 10^3) + (4 \times 10^2) + (8 \times 10^1)\)?
   - F 3,408
   - G 3,480
   - H 34,800
   - J 340,800

3. \( \sqrt{144} = \)
   - A 9
   - B 10
   - C 11
   - D 12

4. Which of these is another way to write the number in the box?
   \[ 42,000,000 + 600,000 + 40 + 8 \]
   - F 42,600,048
   - G 42,640,008
   - H 43,640,080
   - J 42,064,800
**MATH: MATH CONCEPTS**

**Lesson 1: Numeration (cont.)**

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
</table>
| 5. What is the prime factorization of 64?                                | A. $8 \times 8$  
B. $2 \times 2 \times 2 \times 2 \times 2 \times 2$  
C. $2 \times 32$  
D. $2 \times 2 \times 2 \times 8$ |
| 6. Which of these is less than $11^2$?                                  | F. 122  
G. 112  
H. 132  
J. 142 |
| 7. What is the value of the expression in the box?                       | 12 - 4 x 6 =  
A. 8  
B. -9  
C. -12  
D. 0 |
| 8. Which of these is between 0.02 and 0.2 in value?                      | F. 0.2  
G. 0.008  
H. 0.6  
J. 0.06 |
| 9. Which of these is another name for $8^3$                              | A. $8 \times 3$  
B. $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$  
C. $8 \times 8 \times 8$  
D. 3 |
| 10. $6.2 \times 10^3 =$                                                  | F. 620  
G. 6,200  
H. 62,000  
J. 620,000 |
| 11. What is the smallest number that can be divided evenly by 8 and 16?  | A. 16  
B. 128  
C. 32  
D. 24 |
| 12. $-7 + 9 =$                                                           | F. -4  
G. 2  
H. 16  
J. -2 |
13. Which of these is the greatest common factor of 32 and 72?
   A 3
   B 12
   C 9
   D 8

14. How much must you add to −8 to get a number greater than 12?
   F a number between −4 and 14
   G a number less than 5
   H a number less than −4
   J a number greater than 20

15. Which number is greater than 42,648 but less than 53,229?
   A 42,528
   B 41,872
   C 53,326
   D 48,269

16. Which number is 462 rounded to the nearest tenth?
   F 460
   G 465
   H 400
   J 500

17. Which number is 8,219 rounded to the nearest hundred?
   A 8,220
   B 8,000
   C 8,300
   D 8,200

Use the following double bar graph to answer questions 18–19.

18. On which day do the most students buy lunch?
   F Tuesday
   G Friday
   H Monday
   J Wednesday

19. How many total lunches are purchased on Tuesday and Thursday?
   A 120
   B 80
   C 190
   D 200
Lesson 2: Number Concepts

Directions: Read and work each problem. Find the correct answer.

A. How would you read 9.6?
   A  nine and six tenths
   B  ninety six
   C  nine and six hundredths
   D  nine hundred and six

B. Which of these is a composite number?
   F  3
   G  19
   H  5
   J  24

1. 10,435 + 13,456 =
   A  12,000
   B  23,891
   C  22,000
   D  24,635

2. Which describes the underlined portion in the numeral 21,648,362?
   F  thousands
   G  tens of thousands
   H  hundreds of thousands
   J  millions

3. What number goes in the blank to make the number sentence true?
   \[3 \times (1 + 6) = (3 \times 1) + (\_ \times 6)\]
   A  3
   B  0
   C  6
   D  1

4. What is 0.89 rounded to the nearest tenth?
   F  0.089
   G  0.85
   H  0.80
   J  0.9
Lesson 2: Number Concepts (cont.)

5. Which of these is a prime number?
   - A 27
   - B 37
   - C 21
   - D 35

6. What number completes this number sentence?
   \[6 \times 20 = 10 \times \underline{}\]
   - F 6
   - G 12
   - H 16
   - J 60

7. Which of these is another way to write the number shown in the box?
   \[500 + 40 + 0.3 + 0.01\]
   - A 540.13
   - B 543.10
   - C 54.31
   - D 540.31

8. Look carefully at the number pattern below. Which of these number sentences could be used to find the number that is missing from the number pattern?
   \[2, 4, 6, 8, 10, 12, 14, \underline{}, 18\]
   - F 14 + 4 = 18
   - G 18 – 4 = 14
   - H 14 + 2 = 16
   - J 16 + 2 = 18

9. \[3,245 - 2,678 = \]
   - A 267
   - B 432
   - C 567
   - D 523

10. How much would the value of 624,008 be decreased by changing the 6 to a 5?
    - F 24,000
    - G 10,000
    - H 100,000
    - J 60,000

11. Ten million, two hundred six =
    - A 10,000,206
    - B 10,206,000
    - C 10,026,000
    - D 1,260,000

12. Look at the group of numbers in the box. Which statement about the numbers is true?
    \[5, 7, 13, 17, 25\]
    - F All of them are prime numbers.
    - G None of the numbers are odd.
    - H All of the numbers are even.
    - J None of the numbers can be divided evenly by 4.
13. What is the median of these numbers?
   79 95 65 88 72
   A 79  B 65  C 88  D 72

14. What is the average of these numbers?
   6 24 32 15 18
   F 24  G 95  H 19  J 32

15. What is 230.7 in expanded form?
   A 2000 + 30 + 70  B 200 + 3 + 7.0  C 200 + 3 + 70  D 200 + 30 + 0.7

16. 28 – (3 + 6) x 3 =
   F 57  G 18  H 1  J 3

17. What would be an appropriate integer to describe a $10.00 reduction?
   A -1  B -10  C 10  D -11

18. How would you write 4,800 in scientific notation?
   F 4.8 x 10^3  G 48 x 10  H 48 x 10^3  J 4.8 x 10^2

19. What is the rule for the following pattern?
   A denominator is twice the numerator  B numerators increase by threes  
   C the numbers increase  D numerator is twice the denominator

20. 34,654 + 3,768 =
   F 39,456  G 37,986  H 38,422  J 38,232
Use the coordinate graph to answer questions 5 and 6.

5. What point is at (3, 5)?
   - A. R
   - B. S
   - C. V
   - D. T

6. What are the coordinates of point S?
   - F. (4,1)
   - G. (2,1)
   - H. (4,3)
   - J. (1,4)

7. Which angle is a right angle?
   - A
   - B
   - C
   - D

8. A round table has a diameter of 6 feet. What is the circumference of the table? Remember π = 3.14 and 
   \[ C = \pi \times d. \]
   - F. 18.00 feet
   - G. 6.34 feet
   - H. 12.00 feet
   - J. 18.84 feet

9. What is the surface area of a cube if an edge is 8 centimeters long?
   - A. 64 cm²
   - B. 328 cm²
   - C. 384 cm²
   - D. 24 cm²

10. What is the average weight of three packages that weigh 120, 69, and 83 pounds?
    - F. 90.7 pounds
    - G. 85 pounds
    - H. 98.3 pounds
    - J. 99 pounds

11. You know the measurements of 2 angles in a triangle. They are 72 degrees and 42 degrees. What is the measurement of the third angle?
    - A. 66 degrees
    - B. 27 degrees
    - C. 114 degrees
    - D. 14 degrees
12. The distance around a mall is 1,800 yards. Which of these could be the length and width of the mall?
   - F 600 yards and 100 yards
   - G 500 yards and 400 yards
   - H 200 yards and 500 yards
   - J 400 yards and 200 yards

13. If $60y = -120$, then $y =$
   - A 2
   - B 60
   - C -2
   - D -60

14. Which equation means, “A number divided by itself is 1”?
   - F $y \div y = 1$
   - G $1 \div y = y$
   - H $y^2 = 1$
   - J $y \div 1 = y$

15. On a canoe trip with his family, Pete travels an average of 27 miles a day. If the final destination is 140 miles away, about how long will it take Pete to get there?
   - A 2 days
   - B 7 days
   - C 5 days
   - D 12 days

16. How many CDs did the female students buy in 1990 and 1991?
   - F about 100
   - G about 65
   - H about 43
   - J about 35

17. In which year did the students buy 185 CDs?
   - A 1988
   - B 1990
   - C 1994
   - D 1992

18. How many CDs did the boys buy in 1990 and 1992?
   - F 95
   - G 60
   - H 35
   - J 80
**Part 1: Concepts**

**Directions:** Read each problem carefully. Select the correct answer.

### Examples

**A. What is another way to write**

\[40,000,000 + 6,000,000 + 30,000 + 200 + 2?\]

- **A** 46,322
- **B** 4,603,020
- **C** 46,030,202
- **D** 40,632,200

**B. Which of these decimals is less than 2.775 and greater than 1.865?**

- **F** 0.612
- **G** 2.235
- **H** 1.635
- **J** 0.023

1. **Which of the following is another name for \(\frac{19}{5}\)?**

- **A** 3 \(\frac{4}{5}\)
- **B** 2 \(\frac{4}{5}\)
- **C** 3 \(\frac{5}{19}\)
- **D** 3 \(\frac{19}{5}\)

2. **Which of these is a factor of 16, 32, and 64?**

- **F** 3
- **G** 8
- **H** 5
- **J** 6

3. **Which of these number sentences could be used to find the missing number in the pattern below?**

\[1, 4, 7, 10, 13, 16, \_\_\_, 22\]

- **A** 19 – 6 = 13
- **B** 16 – 3 = 13
- **C** 16 + 3 = 19
- **D** 21 – 4 = 18

4. **Which of these is the best estimate of the percentage of the circle that is not shaded?**

- **F** 50%
- **G** 25%
- **H** 33%
- **J** 75%

5. **4.2 \times 10^3 =**

- **A** 42
- **B** 42,000
- **C** 4,200
- **D** 420

6. **6^3 – 24 =**

- **F** 192
- **G** 292
- **H** 0
- **J** 12
7. Which of these is not another way to write $\frac{18}{24}$?

- A. 0.25
- B. 75%
- C. $\frac{3}{4}$
- D. 0.75

8. What is the prime factorization of 32?

- F. $2 \times 2 \times 2 \times 2$
- G. $2 \times 2 \times 2 \times 2 \times 2$
- H. $2 \times 2 \times 2 \times 3$
- J. $2 \times 2 \times 2 \times 2 \times 2 \times 2$

9. Which of these is the best estimate of $25.15 \times \frac{6}{7}$?

- A. $25 \times 6$
- B. $24 \times 5$
- C. $26 \times 7$
- D. $25 \times 4$

10. Which of these is another way to write 0.12?

- F. 1.2%
- G. 0.012
- H. 120%
- J. 12%

11. What should replace the box in the equation $21,014 = 20,000 + \Box + 10 + 4$?

- A. 0
- B. 10
- C. 100
- D. 1,000

12. Which of these is two ten-thousandths?

- F. 0.0002
- G. 0.0020
- H. 2.0000
- J. 0.2000

13. What does the $n$ in the equation below stand for?

$(n + 6) \times 8 = (8 \times 2) + (8 \times 6)$

- A. 3
- B. 2
- C. 4
- D. 6

14. $\sqrt{256} =$

- F. 18
- G. 12
- H. 14
- J. 16
### Part 2: Computation

**Directions:** Read each problem carefully. Select the correct answer.

#### Examples

<table>
<thead>
<tr>
<th>A. 46.87 + 59.06 =</th>
<th>B. 83 – 0.59 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 104.96</td>
<td>F 82.41</td>
</tr>
<tr>
<td>B 105.93</td>
<td>G 81.98</td>
</tr>
<tr>
<td>C 103.03</td>
<td>H 82.64</td>
</tr>
<tr>
<td>D 113.26</td>
<td>J 83.02</td>
</tr>
</tbody>
</table>

1. 0.863 + 0.136 =
   - A 0.899
   - B 0.789
   - C 0.999
   - D 0.629

2. 21.2 x 63 =
   - F 1,233.1
   - G 2,611.4
   - H 1,235.2
   - J 1,335.6

3. 25 x 0.25 =
   - A 6.25
   - B 6
   - C 5.50
   - D 6.75

4. 3.6 ÷ 12 =
   - F 3
   - G 0.6
   - H 0.2
   - J 0.3

5. 24.6929 x 10 =
   - A 24.6
   - B 2.46
   - C 246.929
   - D 246.299

6. 72.05 + 0.008 =
   - F 71.063
   - G 72.058
   - H 72.896
   - J 70.113

7. 34.37 ÷ 5 =
   - A 6.874
   - B 6.213
   - C 5.999
   - D 8.245

8. 0.056 x 100 =
   - F 5
   - G 5.2
   - H 4.8
   - J 5.6
9. \[4 \times 12 \div 6 = \]
   \[\begin{array}{l}
   \text{A} 8 \\
   \text{B} 10 \\
   \text{C} 6 \\
   \text{D} 4 \\
   \end{array}\]

10. \[4 \frac{4}{5} + 3 \frac{2}{5} = \]
    \[\begin{array}{l}
   \text{F} \ 7 \frac{1}{6} \\
   \text{G} \ 8 \frac{2}{5} \\
   \text{H} \ 8 \frac{1}{5} \\
   \text{J} \ 6 \frac{2}{3} \\
   \end{array}\]

11. \[1 \frac{3}{4} + 2 \frac{3}{4} + 1 \frac{1}{4} = \]
    \[\begin{array}{l}
   \text{A} \ 5 \frac{1}{2} \\
   \text{B} \ 5 \frac{3}{4} \\
   \text{C} \ 4 \frac{3}{4} \\
   \text{D} \ 3 \frac{1}{3} \\
   \end{array}\]

12. \[10,469 + 9,400 + 32 = \]
    \[\begin{array}{l}
   \text{F} \ 19,000 \\
   \text{G} \ 18,469 \\
   \text{H} \ 19,901 \\
   \text{J} \ 19,981 \\
   \end{array}\]

13. \[0.20 \times 5 = \]
    \[\begin{array}{l}
   \text{A} \ 1 \\
   \text{B} \ 2 \\
   \text{C} \ 4 \\
   \text{D} \ 3 \\
   \end{array}\]

14. \[20 \frac{3}{4} - 3 \frac{1}{4} = \]
    \[\begin{array}{l}
   \text{F} \ 17 \frac{1}{2} \\
   \text{G} \ 16 \frac{3}{4} \\
   \text{H} \ 15 \frac{1}{2} \\
   \text{J} \ 17 \frac{3}{4} \\
   \end{array}\]

15. 14\% \text{ of } 30 = \]
    \[\begin{array}{l}
   \text{A} \ 4.4 \\
   \text{B} \ 2.6 \\
   \text{C} \ 4.8 \\
   \text{D} \ 4.2 \\
   \end{array}\]

16. 85\% \text{ of } 110 = \]
    \[\begin{array}{l}
   \text{F} \ 93.25 \\
   \text{G} \ 92.10 \\
   \text{H} \ 94.6 \\
   \text{J} \ 93.5 \\
   \end{array}\]

17. 0.2 \times 95 = \]
    \[\begin{array}{l}
   \text{A} \ 19 \\
   \text{B} \ 21 \\
   \text{C} \ 17 \\
   \text{D} \ 12 \\
   \end{array}\]

18. 4.5\% \text{ of } 17 = \]
    \[\begin{array}{l}
   \text{F} \ 0.832 \\
   \text{G} \ 0.765 \\
   \text{H} \ 0.236 \\
   \text{J} \ 0.625 \\
   \end{array}\]
**Part 3: Applications**

**Directions:** Read each problem carefully. Select the correct answer.

### Examples

**A.** The distance around a swimming pool is 90 feet. Which of these could be the length and width of the pool?
- A 20 feet and 15 feet
- B 15 feet and 40 feet
- C 30 feet and 15 feet
- D 25 feet and 25 feet

**B.** What is the surface area of a cube if an edge is 4 centimeters long?
- F 12 cm²
- G 96 cm²
- H 100 cm²
- J 36 cm²

1. **An irregularly shaped pentagon has a perimeter of 764 meters. The pentagon has sides that are 129 meters, 365 meters, 24 meters, and 100 meters long. What is the length of the fifth side?**
- A 146 meters
- B 177 meters
- C 1,389 meters
- D 22 meters

2. **The perimeter of the room in which the party will take place is 70 feet. The width is 15 feet. What is the length?**
- F 40 feet
- G 30 feet
- H 20 feet
- J 10 feet

3. **What is the probability that this spinner will stop on 2?**
- A \( \frac{1}{4} \)
- B \( \frac{1}{3} \)
- C \( \frac{1}{2} \)
- D 1

4. **An angle of 86° is—**
- F symmetric
- G right
- H obtuse
- J acute

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10. F
11. A
12. H
13. D
14. F