



THIRD SPACE  
LEARNING

# 4th Grade Tennessee State Practice Math Test

Tennessee Practice Test Grade  
4

Grade 4

## Questions

Name: .....

Class: .....

Date: .....

Score: .....

YOU MAY NOT USE A CALCULATOR IN SUBPART 1 OF THIS TEST.

1 Which comparison is correct?

A.  $0.27 > 0.3$

B.  $0.03 < 0.27$

C.  $0.07 > 0.20$

D.  $3.07 > 3.7$

2 Solve  $245,439 + 36,702$ .

Write your answer in the box provided.

 Answer

- 3 Flynn solves  $57 \times 24$  with the array.

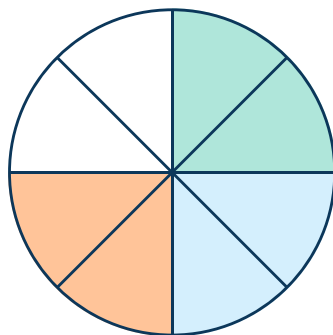
?	140
200	28

What missing number will complete Flynn's array?

Write your answer in the box provided.

 Answer

4



Which expression does the model show?

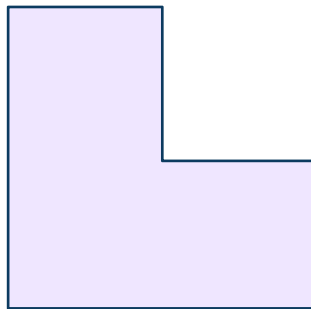
- A.  $3 \times \frac{3}{4}$
- B.  $3 \times \frac{2}{8}$
- C.  $6 \times \frac{3}{4}$
- D.  $6 \times \frac{2}{8}$

- 5 Bodie has 24 buckets to fill with sand. Each bucket holds 8 kilograms of sand. How many kilograms of sand does Bodie need to fill all the buckets?

Write your answer in the box provided.

 Answer

- 
- 6 How many lines of symmetry does the shape below have?



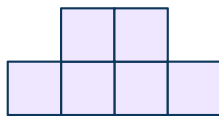
- A. 1
- B. 4
- C. 0
- D. 2



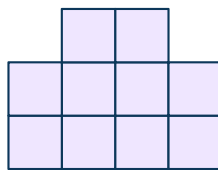
7 Which statement is true?

- A. The digit 2 in 143,702 is ten times larger than in 19,425.
- B. The digit 8 in 81,425 is ten times larger than in 145,802.
- C. The digit 5 in 18,425 is ten times smaller than in 147,502.
- D. The digit 4 in 135,402 is ten times smaller than in 14,025.
- E. The digit 1 in 145,802 is one hundred times larger than in 18,425.

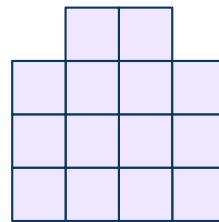
8 Kane creates a pattern with squares. Kane starts with picture 1. For every picture after, Kane continues to add 1 square to each column.



picture 1

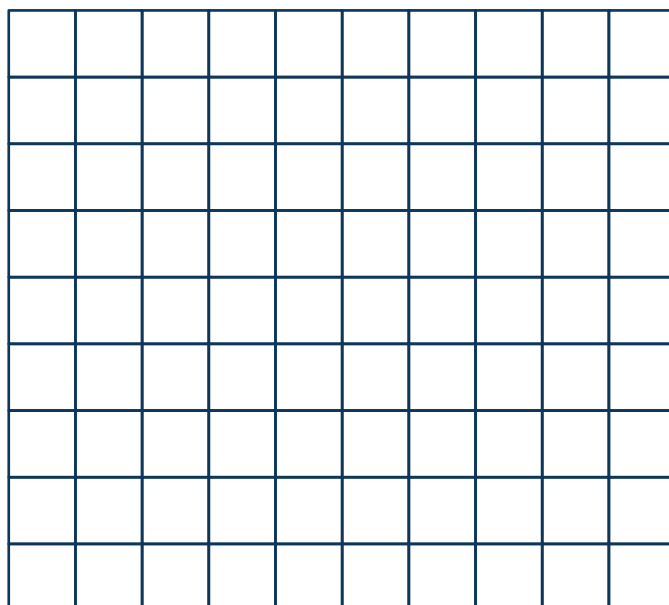


picture 2



picture 3

Use Kane's rule to draw picture 5 on the grid provided.



9 Which comparison is true?

A.  $\frac{1}{2} < \frac{1}{3}$

B.  $\frac{2}{5} > \frac{3}{6}$

C.  $\frac{9}{10} < \frac{7}{8}$

D.  $\frac{3}{4} > \frac{6}{10}$

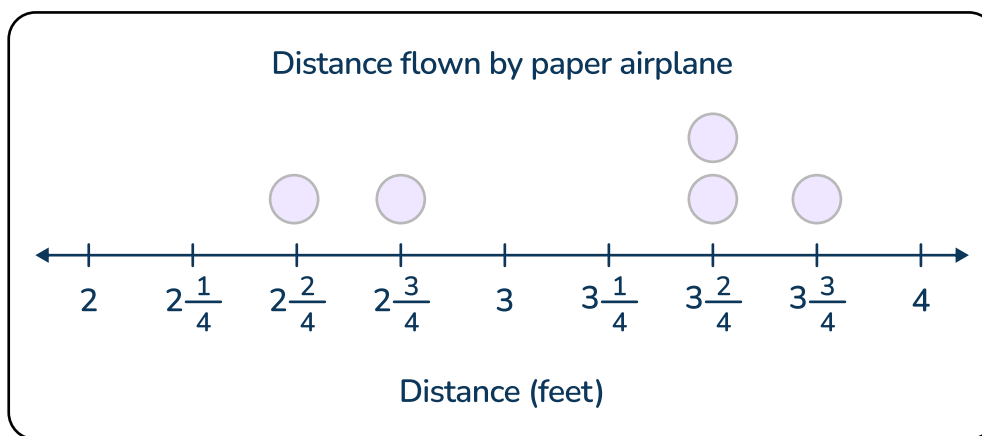
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10 What is the value of  $4,059 \times 7$ ?

Write your answer in the box provided.

 Answer

- 11 The line plot shows how far Kala threw a paper airplane in a science experiment.



What is the difference between the shortest and longest distance Kala threw the airplane?

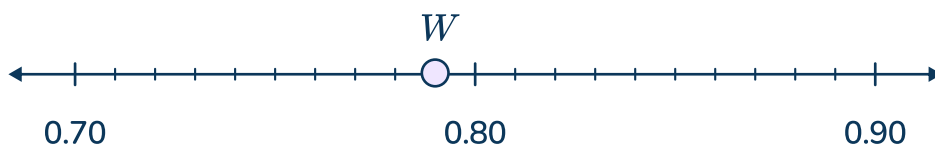
- A.  $1\frac{1}{4}$  feet
- B. 1 foot
- C.  $3\frac{2}{4}$  feet
- D.  $6\frac{1}{4}$  feet

- 12 Pete rounds a number to 700. He rounded the number to the nearest hundred. Which could be Pete's number? Select the **two** correct answers.

A. 645  
B. 807  
C. 746  
D. 685  
E. 751

---

13



What is the value of point W on the number line? Select the two correct answers.

A. 0.89  
B. 0.79  
C. 8.9  
D.  $\frac{89}{10}$   
E.  $\frac{79}{10}$   
F.  $\frac{79}{100}$

- 14 Bruna has 158 apples. She wants to put them into boxes. Each box can hold 6 apples. How many boxes will she need to hold all of the apples?

Write your answer in the box provided.

 Answer

- 15 Arelia subtracted with the standard algorithm.

	5,	7	1	9
–	3,	4	2	8
<hr/>				
	2,	3	1	1

What mistake did Areli make?

- A. She did not make any mistakes.
- B. She did not line up the place values correctly.
- C. She did not carry the extra ten to make  $7 + 1 = 8$  tens on top.
- D. She did not borrow 1 hundred to subtract 2 tens from 11 tens.

16 Solve  $4\frac{1}{5} - 2\frac{3}{5} = \underline{\hspace{2cm}}$

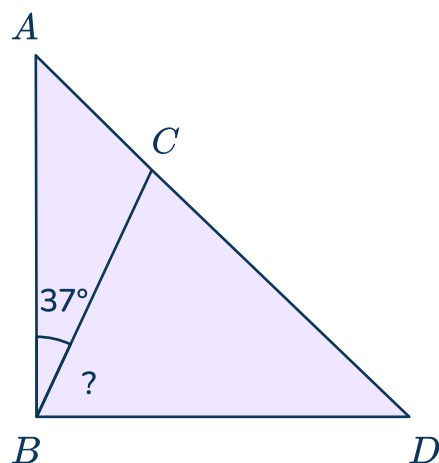
A.  $1\frac{2}{5}$

B.  $2\frac{3}{5}$

C.  $1\frac{3}{5}$

D.  $2\frac{2}{5}$

- 17 The right triangle below is divided into two parts. The measure of angle ABC is 37 degrees. What is the measure of angle CBD?



A.  $60^\circ$

B.  $53^\circ$

C.  $90^\circ$

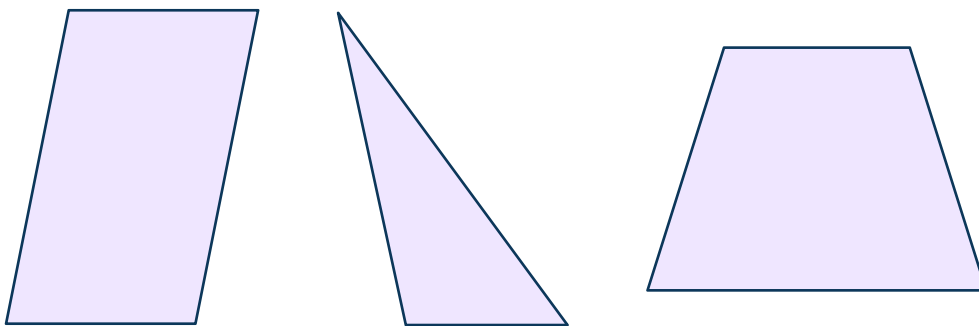
D.  $45^\circ$

- 18 Yan and Jelani are playing a game. Yan has 345 points. Yan has 149 more points than Jelani. How many points does Jelani have?

A. 196 points  
B. 494 points  
C. 204 points  
D. 484 points

---

- 19 Levon sorts these figures into the same group.



Which statement is true about the shapes in this group?

A. Each shape has a pair of parallel sides.  
B. Each shape has two acute angles.  
C. Each shape has two obtuse angles.  
D. Each shape is a quadrilateral.

20 Solve  $\frac{6}{100} + \frac{5}{10} = \text{_____}$ .

A.  $\frac{11}{100}$

B.  $\frac{11}{10}$

C.  $\frac{56}{100}$

D.  $\frac{65}{10}$

---

21 Which number comparison is true?

A. Three thousand nine hundred seven =  $(3 \times 1,000) + (9 \times 100) + (7 \times 10)$

B.  $(3 \times 1,000) + (7 \times 10) + (4 \times 1) < \text{three thousand seven hundred four}$

C.  $(4 \times 10,000) + (6 \times 1,000) + (6 \times 1) < \text{forty six thousand six}$

D. Eighteen thousand one hundred  $< (1 \times 10,000) + (1 \times 900) + (1 \times 100)$



THIS IS THE END OF CALCULATOR INACTIVE QUESTIONS.



YOU MAY USE A CALCULATOR IN SUBPART 2 OF THIS TEST.

- 22 Ayla's family is planting a garden. They plant 4 times as many tomato plants as squash plants. There are 64 tomato plants. How many tomato and squash plants are there altogether?

Write your answer in the box provided.

 Answer

- 23 What is the best unit to measure the liquid in a milk carton?

- A. gallons
- B. liters
- C. quarts
- D. cups

- 24 Kellen and Noah went hiking. Kellen hiked  $\frac{4}{5}$  of a mile. Noah hiked 4 times as far as Kellen. How many miles did Noah hike?

A. 5 miles

B.  $3\frac{1}{5}$  miles

C.  $4\frac{1}{5}$  miles

D.  $\frac{16}{20}$  miles

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- 25 Hudson makes and sells candles.

- Hudson made 512 candles yesterday.
- Hudson made 350 candles today.
- Each box holds 8 candles.

How many boxes are needed to pack all the candles Hudson made yesterday and today?

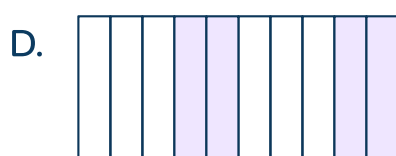
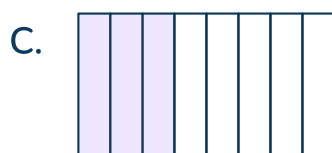
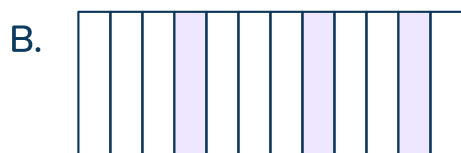
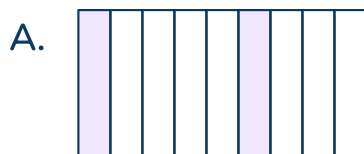
A. 107

B. 108

C. 20

D. 21

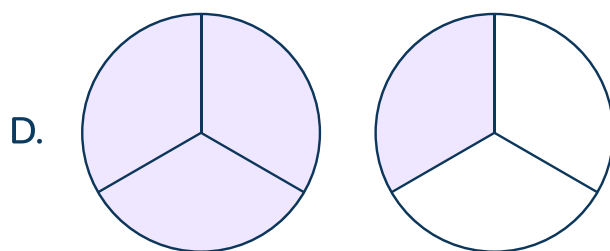
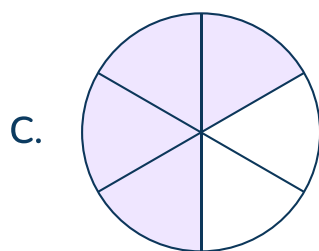
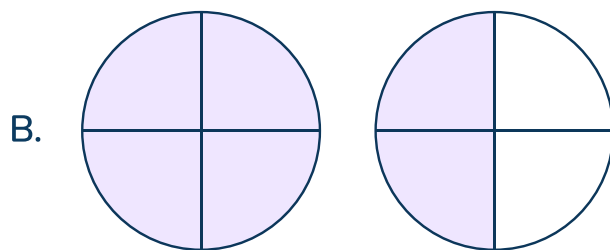
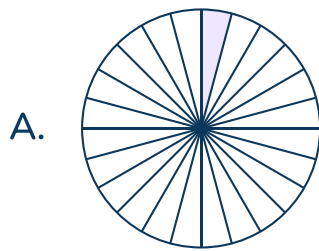
- 26 The shapes are divided into equal parts. Which shape is  $\frac{1}{4}$  shaded?



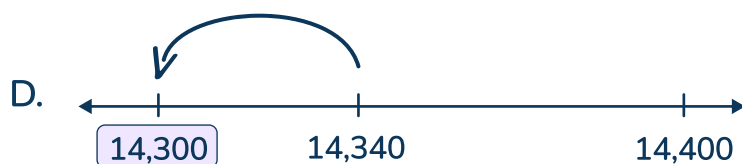
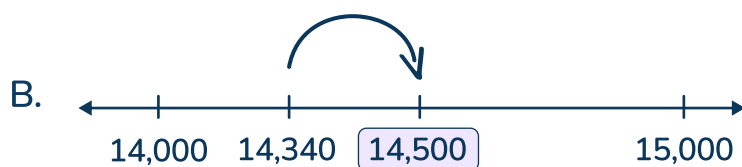
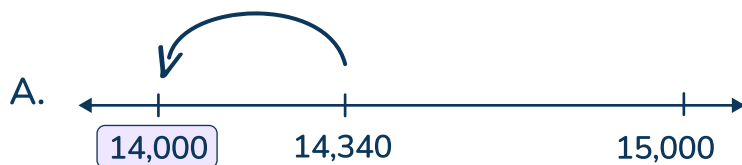
- 27 On Sunday, 456 people went to the movies. This is triple the number of people that went to the movies on Monday. How many more people went to the movies on Sunday?

- A. 152 people
- B. 1,368 people
- C. 304 people
- D. 912 people

- 28 Choose the model that shows  $6 \times \frac{1}{4}$ .



- 29 Which number line shows 14,340 rounded to the nearest hundred?



- 30 The width of a rectangle is 8 inches. The area of the rectangle is 272 square inches. What is the length of the rectangle?

- A. 34 inches
- B. 17 inches
- C. 68 inches
- D. 128 inches

**31** Starting number: 112

Rule: subtract 5 each time

Which statement is true about the numbers in the pattern?

- A. All the numbers are even.
  - B. All the numbers are odd.
  - C. The numbers alternate between even and odd.
  - D. The first number is even and the rest are odd.
- 

**32** Evita read for 35 minutes. Then she played a video game for 55 minutes, before she ate lunch. If she started reading at 9:50 am and finished eating lunch at 11:45 am, how long did Evita spend eating lunch?

- A. 40 minutes
  - B. 25 minutes
  - C. 35 minutes
  - D. 20 minutes
- 

**33** A cat weighs 5 pounds. A dog weighs 7 times as much as the cat. Which equation represents how much the dog weighs?

- A.  $\square \times 5 = 7$
- B.  $7 \times 5 = \square$
- C.  $5 + 7 = \square$
- D.  $\square + 5 = 7$



THIS IS THE END OF SUBPART 2 OF THE MATH PRACTICE TEST.

YOU MAY USE A CALCULATOR IN SUBPART 3 OF THIS TEST.

- 34 Jack's toy store has 2,235 toys.
- He sells 658 toys to customers.
  - Then a box of 1,230 more toys for his store arrives.
  - After that, he sells 275 more toys.

How many toys does Jack have in his store now?

Write your answer in the box provided.

 Answer

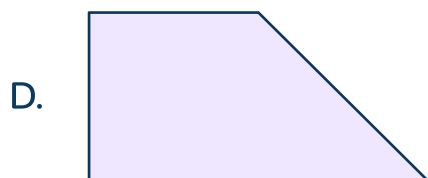
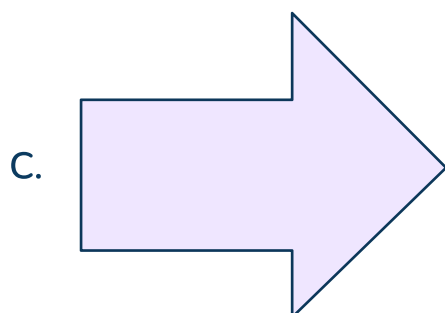
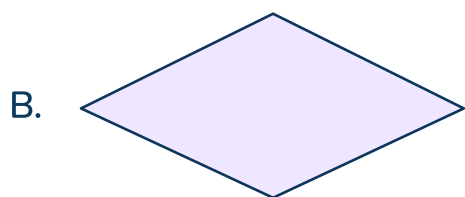
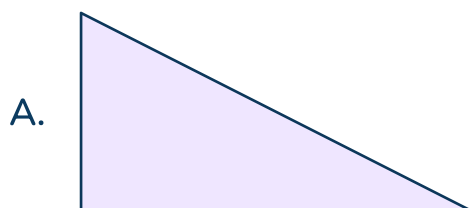
- 
- 35 Which decimal is equal to  $\frac{7}{100}$ ?

- A. 0.70
- B. 0.7
- C. 7.00
- D. 0.07

- 36 Edmund has 6 cups of juice. He drinks  $2\frac{5}{8}$  cups in the morning and  $2\frac{7}{8}$  cups in the afternoon. How much juice does he have left?

- A.  $\frac{4}{8}$  cups
- B.  $5\frac{4}{8}$  cups
- C.  $4\frac{4}{8}$  cups
- D.  $1\frac{4}{8}$  cups
- 

- 37 Which shape does NOT have a right angle?



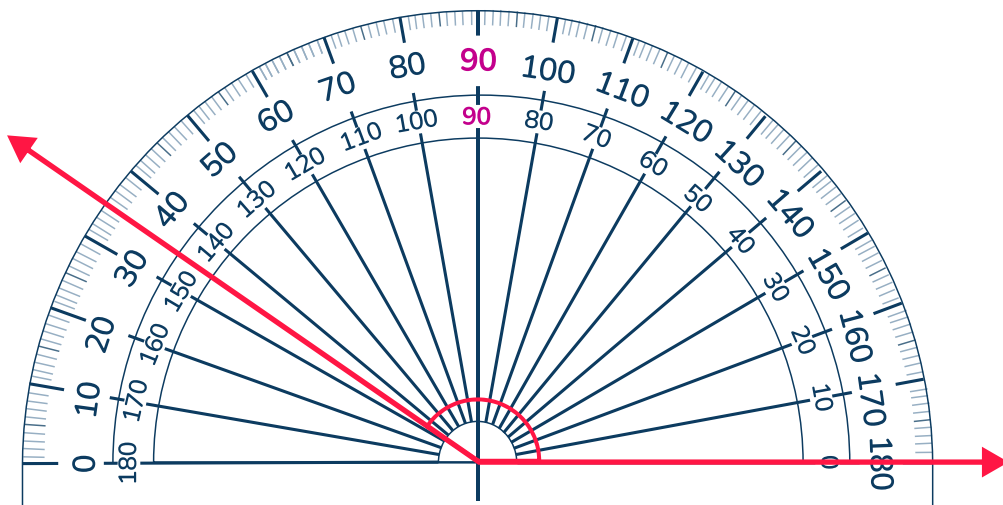


- 38 Davu's garden is 15 feet by 18 feet. If each plant needs 9 square feet of space, how many plants can Davu have in his garden?

Write your answer in the box provided.

 Answer

- 39 What is the measure of the angle?



- A.  $45^\circ$
- B.  $145^\circ$
- C.  $135^\circ$
- D.  $35^\circ$

40 Which equations are correct? Select the **two** correct answers.

A.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$

B.  $\frac{1}{5} + \frac{4}{5} = \frac{5}{10}$

C.  $\frac{1}{6} + \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

D.  $\frac{1}{12} + \frac{7}{12} + \frac{1}{12} = \frac{9}{12}$

E.  $\frac{1}{3} + \frac{2}{3} = \frac{3}{6}$

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41 A teacher has 396 books and wants to pack them into boxes. Each box can hold 8 books. How many boxes does the teacher need?

A. 49

B. 3,168

C. 388

D. 50

- 42 A class is comparing the fractions  $\frac{3}{4}$  and  $\frac{9}{10}$ . Below are 3 students' responses.

2 and 4 are smaller than 9 and 10, so  $\frac{3}{4}$  is a smaller fraction.



Wayne

Both fractions are 1 part away from 1 whole, and fourths are larger parts, so  $\frac{3}{4}$  is smaller.



Jillian

$\frac{3}{4}$  is equivalent to  $\frac{9}{12}$ , and since twelfths are larger than tenths,  $\frac{3}{4}$  is the larger fraction.



Tom

Which student is correct?

- A. Wayne
- B. Jillian
- C. Tom
- D. All students are correct

- 43 Which fraction represents point T? Select the **two** correct answers.



- A.  $\frac{3}{4}$
- B.  $\frac{6}{8}$
- C.  $\frac{5}{8}$
- D.  $\frac{3}{5}$
- E.  $\frac{2}{6}$

44 Which set of numbers are all multiples of 8?

- A. 16, 32, 88, 94
  - B. 1, 8, 16, 24
  - C. 8, 24, 32, 56
  - D. 1, 2, 4, 8
- 

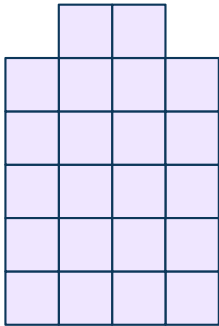
45 Which comparison is true?

- A.  $67.08 > 67.80$
- B.  $56.12 < 55.99$
- C.  $33.2 > 32.3$
- D.  $12.85 < 12.58$



THIS IS THE END OF THE TEST.

## Answer Key

Item number	Correct answer	Standard(s)	DOK
1	B	4.NF.C.7	DOK 1
2	282,141	4.NBT.B.4	DOK 1
3	1,000	4.NBT.B.5	DOK 2
4	B	4.NF.B.4b	DOK 2
5	192	4.MD.A.2	DOK 2
6	A	4.G.A.3	DOK 1
7	D	4.NBT.A.1	DOK 1
8		4.OA.C.5	DOK 2
9	D	4.NF.A.2	DOK 1
10	28,413	4.NBT.B.5	DOK 1
11	A	4.MD.B.4	DOK 2
12	C, D	4.NBT.A.3	DOK 1
13	B, F	4.NF.C.6	DOK 2
14	27	4.NBT.B.6	DOK 2
15	D	4.NBT.B.4	DOK 3

# Tennessee State Practice Math Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
16	C	4.NF.A.3c	DOK 1
17	B	4.MD.C.7	DOK 2
18	A	4.NBT.B.4	DOK 2
19	B	4.G.A.2	DOK 2
20	C	4.NF.C.5	DOK 2
21	B	4.NBT.A.2	DOK 2
22	80	4.OA.A.2	DOK 2
23	B or D	4.MD.A.1	DOK 1
24	B	4.NF.B.4c	DOK 2
25	B	4.NF.B.4c	DOK 2
26	B	4.NF.A.1	DOK 2
27	C	4.OA.A.2	DOK 2
28	B	4.NF.B.4a	DOK 1
29	D	4.NBT.A.3	DOK 2
30	A	4.MD.A.3	DOK 2
31	C	4.OA.C.5	DOK 2
32	B	4.MD.A.2	DOK 2
33	B	4.OA.A.1	DOK 2
34	2,532	4.OA.A.3	DOK 2

## Tennessee State Practice Math Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
35	D	4.NF.C.6	DOK 1
36	A	4.NF.B.3d	DOK 2
37	B	4.G.A.2	DOK 1
38	30	4.MD.A.3	DOK 2
39	B	4.MD.C.6	DOK 1
40	A, D	4.NF.B.3b	DOK 1
41	D	4.NBT.B.6	DOK 2
42	B	4.NF.A.2	DOK 3
43	A, B	4.NF.A.1	DOK 2
44	C	4.OA.B.4	DOK 1
45	C	4.NBT.A.2	DOK 1

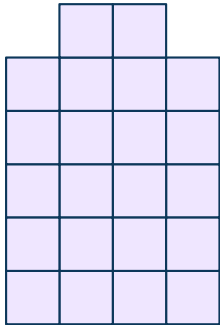
## ANSWERS SORTED BY REPORTING CATEGORY

“Major work of the grade” standards are indicated with an * Computation with whole numbers (4.OA.A, 4.NBT.B)			
Item number	Correct answer	Standard(s)	DOK
2	282,141	4.NBT.B.4*	DOK 1
3	1,000	4.NBT.B.5*	DOK 2
10	28,413	4.NBT.B.5*	DOK 1
14	27	4.NBT.B.6*	DOK 2
15	D	4.NBT.B.4*	DOK 3
18	A	4.NBT.B.4*	DOK 2
22	80	4.OA.A.2*	DOK 2
25	B	4.OA.A.3*	DOK 2
27	C	4.OA.A.2*	DOK 2
33	B	4.OA.A.1*	DOK 2
34	2,532	4.OA.A.3*	DOK 2
41	D	4.NBT.B.6*	DOK 2



# Tennessee State Practice Math Test | Grade 4 | Answers

Fractions (4.NF.A, 4.NF.B, 4.NF.C)			
Item number	Correct answer	Standard(s)	DOK
1	B	4.NF.C.7*	DOK 1
4	B	4.NF.B.4b*	DOK 2
9	D	4.NF.A.2*	DOK 1
13	B, F	4.NF.C.6*	DOK 2
16	C	4.NF.A.3c*	DOK 1
20	C	4.NF.C.5*	DOK 2
24	B	4.NF.B.4c*	DOK 2
26	B	4.NF.A.1*	DOK 2
28	B	4.NF.B.4a*	DOK 1
35	D	4.NF.C.6*	DOK 1
36	A	4.NF.B.3d*	DOK 2
40	A, D	4.NF.B.3b*	DOK 1
42	B	4.NF.A.2*	DOK 3
43	A, B	4.NF.A.1*	DOK 2

Number Relationships and Patterns (4.OA.B, 4.OA.C, 4.NBT.A)			
Item number	Correct answer	Standard(s)	DOK
7	D	4.NBT.A.1*	DOK 1
8		4.OA.C.5	DOK 2
12	C, D	4.NBT.A.3*	DOK 1
21	B	4.NBT.A.2*	DOK 2
29	D	4.NBT.A.3*	DOK 2
31	C	4.OA.C.5	DOK 2
44	C	4.OA.B.4	DOK 1
45	C	4.NBT.A.2*	DOK 1

## Tennessee State Practice Math Test | Grade 4 | Answers




Geometric and Measurement Concepts (3.MD.A, 3.MD.B, 3.MD.C, 3.MD.D, 3.G.A)			
Item number	Correct answer	Standard(s)	DOK
5	192	4.MD.A.2	DOK 2
6	A	4.G.A.3	DOK 1
11	A	4.MD.B.4	DOK 2
17	B	4.MD.C.7	DOK 2
19	B	4.G.A.2	DOK 2
23	B or D	4.MD.A.1	DOK 1
30	A	4.MD.A.3	DOK 2
32	B	4.MD.A.2	DOK 2
38	30	4.MD.A.3	DOK 2
37	B	4.G.A.2	DOK 1
39	B	4.MD.C.6	DOK 1

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Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

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- ✓ Aligned to your state's standard
- ✓ Scaffolded learning to close gaps

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-  [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



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