



THIRD SPACE
LEARNING

4th Grade North Carolina State Practice Math Test

North Carolina Practice Test
Grade 4

Grade 4

Questions

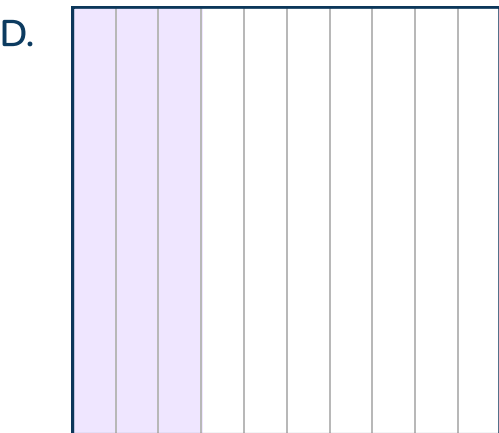
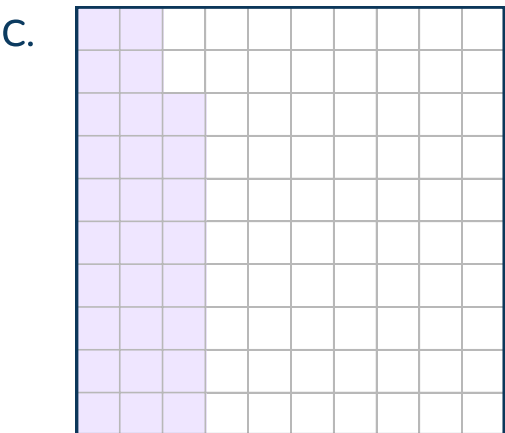
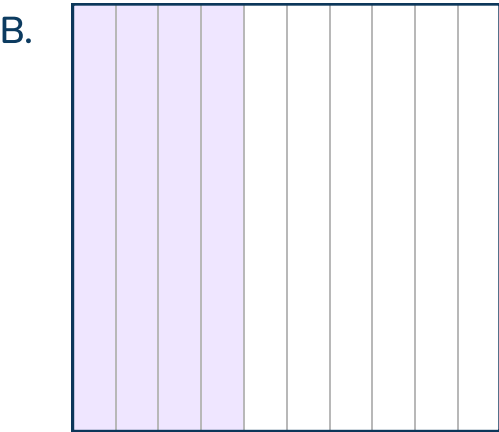
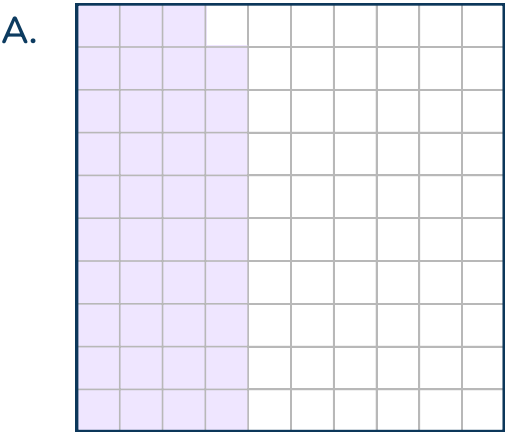
Name: Class:

Date: Score:

No Calculator For Questions 1 - 22



- 1 Mila, Declan and Kit are picking apples. Mila picks an apple that weighs 0.29 pounds. Declan picks an apple that weighs 0.1 more than Mila’s. Kit’s apple weighs more than Mila’s but less than Declan’s. Which model shows the weight of Declan’s apple?



2 Selina is planting a garden with her uncle. They planted 3 times as many watermelon plants as cucumber plants. There are 12 cucumber plants. How many watermelon and cucumber plants are there?

- A. 36
- B. 4
- C. 48
- D. 16

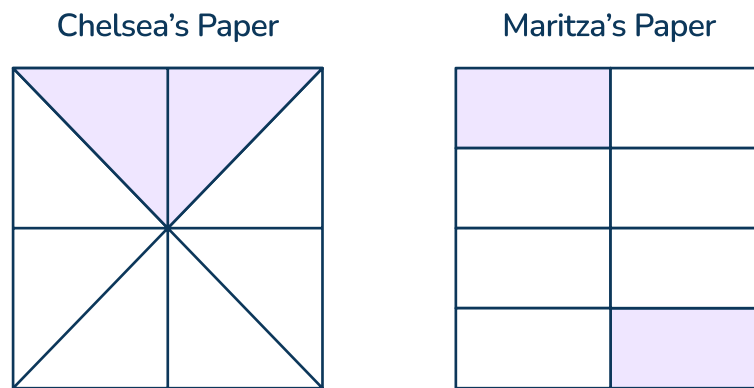
3 Using the following rectangular array, Juniper solves 47×18 .

400	?
70	56

What missing number will complete Juniper’s array?

- A. 8
- B. 10
- C. 80
- D. 320

- 4 Two students were coloring the same size paper.



What fraction of the paper was colored by each student?

- A. $\frac{1}{4}$
- B. $\frac{1}{8}$
- C. $\frac{1}{2}$
- D. $\frac{1}{6}$

- 5 Poppy and Adan are baking bread. Poppy has $\frac{7}{8}$ of a pound of flour. Adan has $1\frac{3}{8}$ pound of flour. How many pounds of flour do they have altogether?

- A. $1\frac{10}{16}$
- B. $\frac{11}{16}$
- C. $2\frac{2}{8}$
- D. 2

- 6 Each bus fits 68 students. A school has 35 buses. How many students will fit on all 35 buses?

A. 2,074
B. 2,380
C. 2,580
D. 2,344

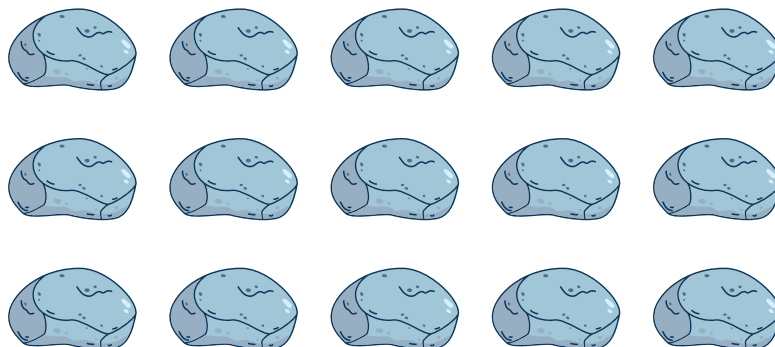
- 7 A class is comparing the digits' values in the numbers 30,241 and 12,430. Which statement is true?

A. The digit 4 in 30,241 is ten times larger than in 12,430.
B. The digit 1 in 12,430 is ten times larger than in 30,241.
C. The digit 2 in 12,430 is one thousand times smaller than in 30,241.
D. The digit 3 in 30,241 is one thousand times larger than in 12,430.

- 8 On Friday night's game there were 45,302 people in the stadium. On Saturday's night game there were 7,819 more people in the stadium than Friday night. How many people were in the stadium Saturday night?

A. 53,121
B. 37,483
C. 42,517
D. 53,211

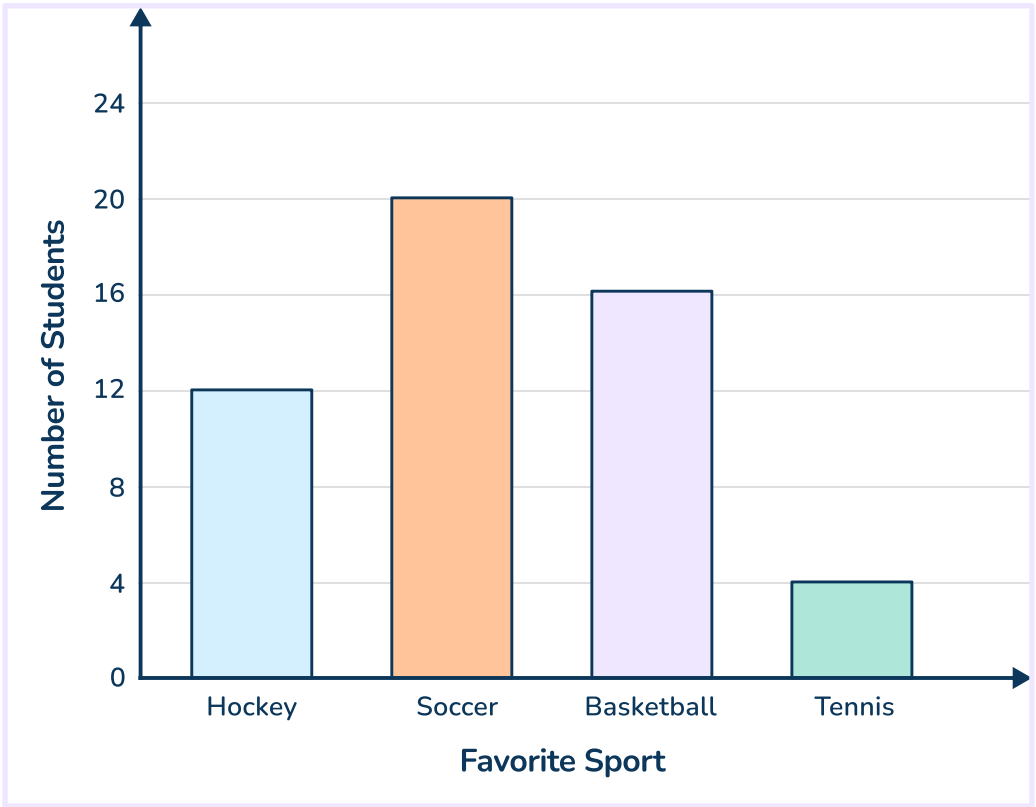
- 9 Marco collects rocks. He has 15 emeralds. He will give 5 to his brother.



What fraction of emeralds will Marco have left?

- A. $\frac{3}{5}$
- B. $\frac{2}{3}$
- C. $\frac{1}{3}$
- D. $\frac{1}{5}$
-
- 10 Esme makes 22 dozen homemade soap bars. Esme puts 8 bars of soap in a box. How many boxes does Esme need to fit all the soap, with no left overs?
- A. 33
- B. 15
- C. 2,112
- D. 28

- 11 Students in 4th grade were asked about their favorite sport. The results are graphed below.



How many more students liked soccer or basketball than hockey or tennis?

- A. 5
- B. 20
- C. 16
- D. 10

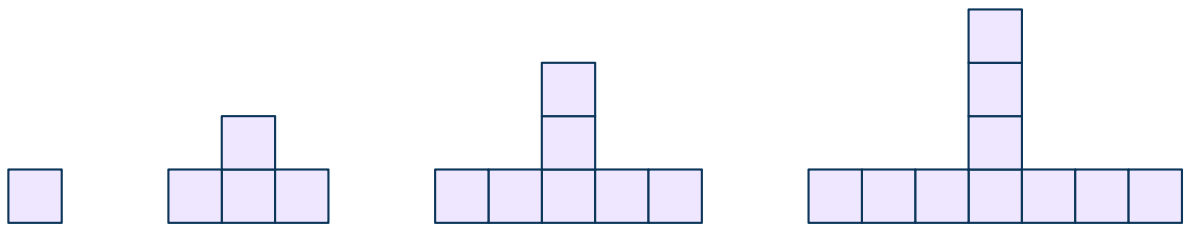
- 12 Mr. Hernandez, the art teacher, has 238 crayons. He is putting them into bags. Each bag has 7 crayons. How many bags of crayons does Mr. Hernandez fill?

A. 32
B. 304
C. 34
D. 45

-
- 13 Leslie and James each ran at a track meet. James ran $\frac{2}{3}$ of a mile. Leslie ran 4 times as far as James. How many miles did Leslie run?

A. $2\frac{2}{3}$
B. $4\frac{2}{3}$
C. $\frac{2}{12}$
D. $\frac{8}{12}$

14 Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure?



- A. 10
- B. 13
- C. 16
- D. 19

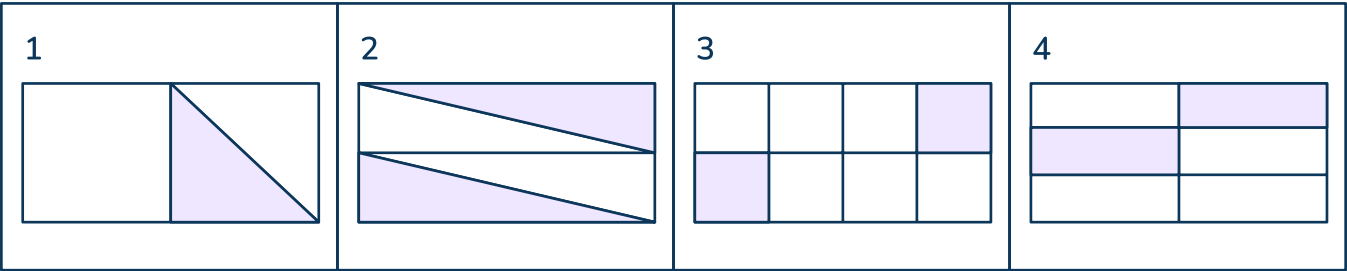
15 Ruby subtracted with the standard algorithm.

	5,	2	9	8
-	3,	7	2	1
	2,	5	7	7

What mistake did Ruby make?

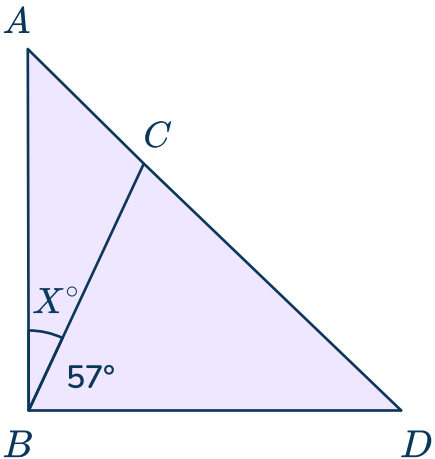
- A. She did not make any mistakes.
- B. She did not line up the place values correctly.
- C. She did not carry the extra hundred to make 3 hundreds on top.
- D. She did not borrow 1 thousand to subtract 7 hundreds from 12 hundreds.

16 Which rectangles show the same fractional amount shaded?



- A. 3 and 4
- B. 1 and 3
- C. 2 and 1
- D. 4 and 4

17 The right triangle below is divided into two parts. The measure of angle CBD is 57 degrees. What is the measure of angle ABC?



- A. 33°
- B. 43°
- C. 90°
- D. 45°

- 18 Raye is putting 468 peaches into baskets. Each basket has 6 peaches. How many baskets does Raye fill with peaches?

A. 58
B. 78
C. 74
D. 67

- 19 Over the summer, Jedidiah read 12 books. Cleo read 6 times as many books as Jedidiah. Cleo read 3 times as many books as Kash.

Which equation shows how many books Kash read over in the summer?

A. $12 \times 6 \div 3 = \triangle$
B. $12 \times 3 \times 6 = \triangle$
C. $12 \div 6 \times 3 = \triangle$
D. $12 \div 3 \times 6 = \triangle$

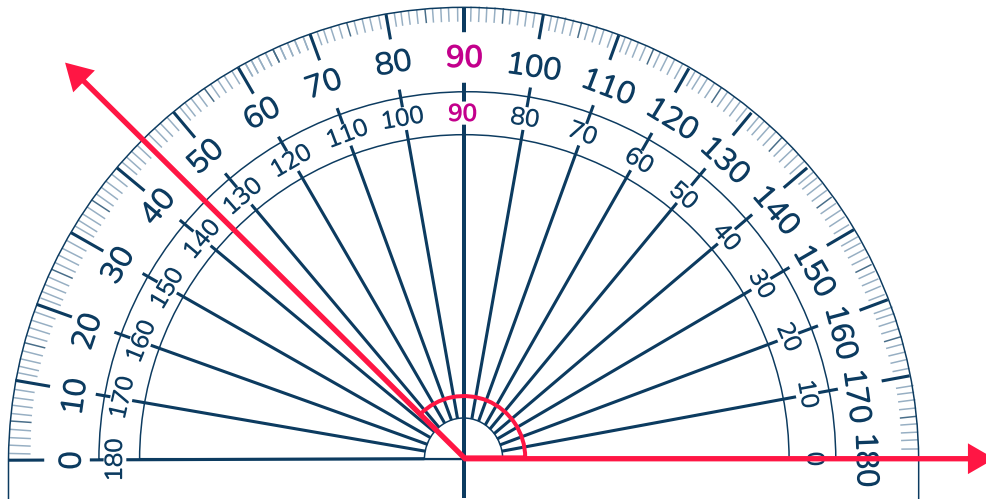
- 20 A coffee shop sold 1,290 cups of coffee last week. This week they sold 386 less cups of coffee. How many cups of coffee did the shop sell this week and last week combined?

A. 1,676
B. 904
C. 2,194
D. 2,406

21 Which number comparison is true?

- A. Three thousand nine hundred one = $(3 \times 1,000) + (9 \times 100) + (1 \times 10)$
 - B. twenty three thousand nine $> (2 \times 10,000) + (3 \times 1,000) + (9 \times 1)$
 - C. Sixteen thousand one hundred four $< (1 \times 1,000) + (1 \times 600) + (1 \times 100) + (4 \times 1)$
 - D. $(4 \times 1,000) + (5 \times 10) + (4 \times 1) < \text{four thousand five hundred four}$
-

22 What is the measure of the angle?



- A. 145°
- B. 45°
- C. 135°
- D. 35°



THIS IS THE END OF CALCULATOR INACTIVE QUESTIONS

THIS IS THE BEGINNING OF CALCULATOR ACTIVE QUESTIONS

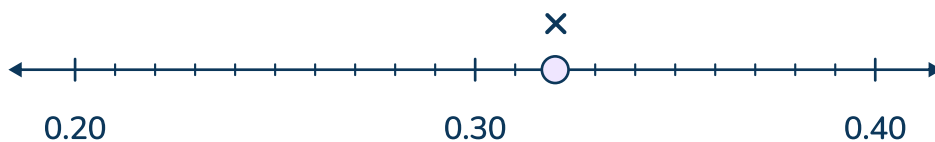
Calculator Can Be Used For Questions 23 - 25



- 23 The cafeteria has 678 ounces of juice. They put the juice in 8 ounce cups. How many 8 ounce cups of juice can they make?

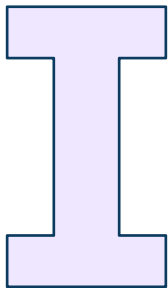
A. 83
B. 84
C. 85
D. 86

-
- 24 What is the value of point X on the number line below?



A. $\frac{32}{100}$
B. $\frac{5}{10}$
C. $\frac{50}{100}$
D. $\frac{32}{10}$

25 How many lines of symmetry does the capital i have?



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

26 Which table shows the relationship between meters and millimeters?

A.

meters	millimeters
3,000	3
8,000	8
12,000	12

B.

meters	millimeters
400	4
700	7
900	9

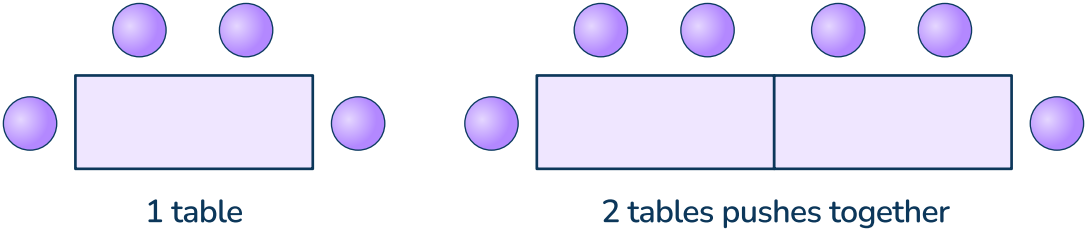
C.

meters	millimeters
3	3,000
8	8,000
12	12,000

D.

meters	millimeters
4	400
7	700
9	900

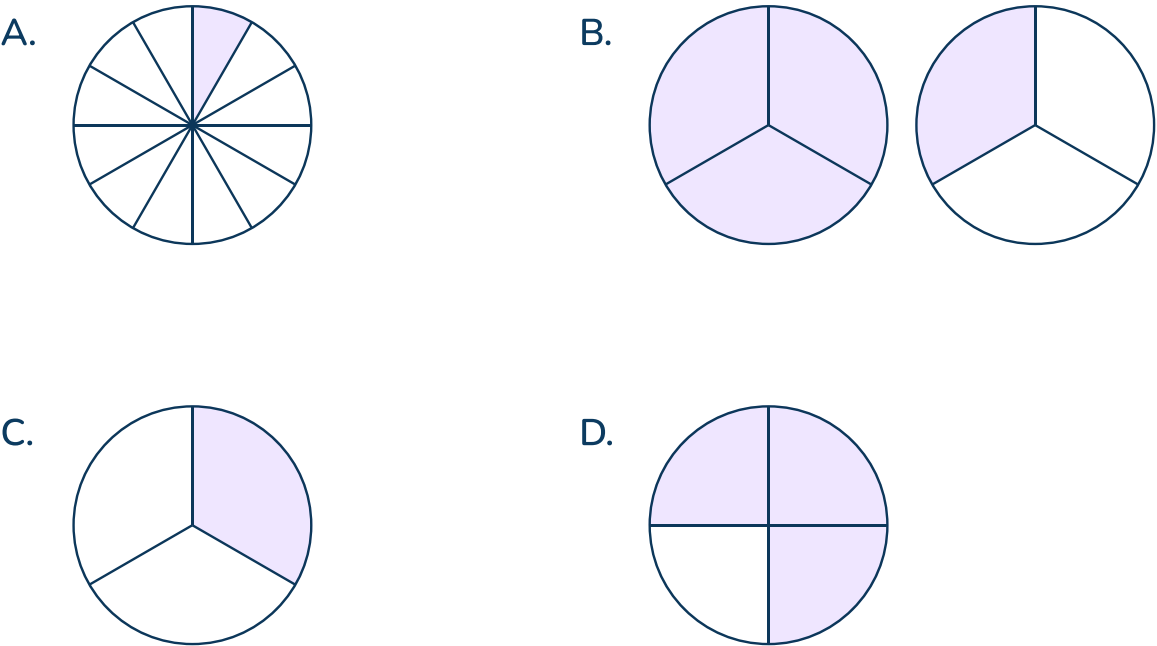
- 27 Ms. Richards is arranging tables in the cafeteria for a special event. The short side of the table fits 1 person and the long side of the table fits 2 people. No one is seated at the front of the table.



Which rule shows how many people will fit at any number of tables?

- A. Start with 4 people, then add 2 people for each additional table
- B. Start with 4 people, then add 3 people for each additional table
- C. Start with 0 people, then add 4 people for each table used
- D. Start with 1 person, then add 3 people for each table used

-
- 28 Choose the model that shows $4 \times \frac{1}{3}$.

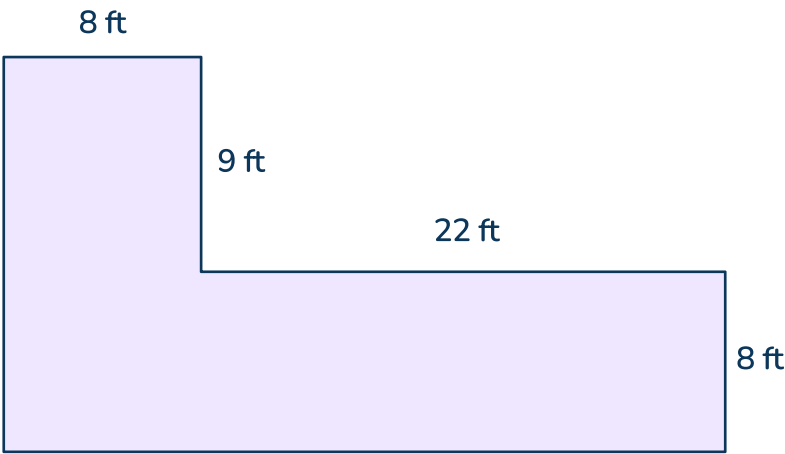


- 29 Kiara writes poems each day after school. Below is the total number of poems Kiara wrote in 5 days.

Days	1	2	3	4	5
Total number of poems written	2	3	5	8	12

If Kiara continues this pattern, how many total poems will she write in 10 days?

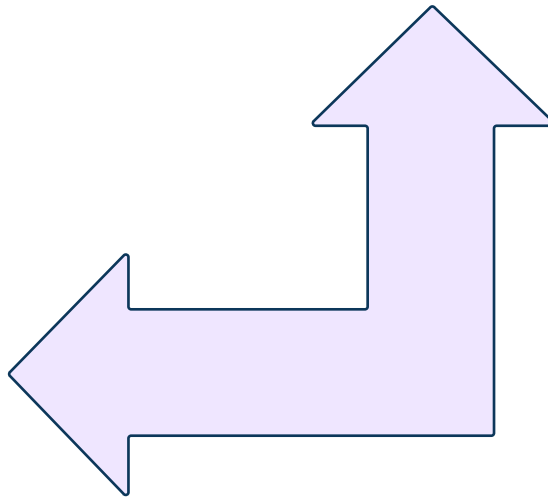
- A. 24
 - B. 32
 - C. 47
 - D. 60
-
- 30 Mr. Jackson needs a cover for his L-shaped pool, shown below.



How much fabric, in square feet, is needed to cover the entire pool?

- A. 47
- B. 94
- C. 312
- D. 248

- 31 How many line segments make up the polygon?



- A. 12
 - B. 10
 - C. 8
 - D. 14
-

- 32 Nasir read for 45 minutes. Then he played his video game for 1 hour, before he spent time playing outside. If he started reading at 9:55 am and started eating lunch at 12:02 pm, how long did he spend playing outside?

- A. 28 minutes
- B. 1 hour 2 minutes
- C. 42 minutes
- D. 22 minutes

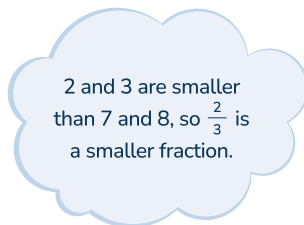
- 33 Myra and Vihaan are building towers with blocks. Vihaan's tower is 4 blocks tall. Myra's tower is 12 blocks tall. How many times taller is Myra's tower compared to Vihaan's?

A. 48
B. 8
C. 3
D. 16

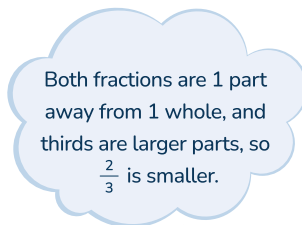
-
- 34 Mikey's garden is 15 feet by 18 feet. If each plant needs 9 square feet of space, how many plants can Trevor have in his garden?

A. 270 plants
B. 30 plants
C. 2,430 plants
D. 32 plants

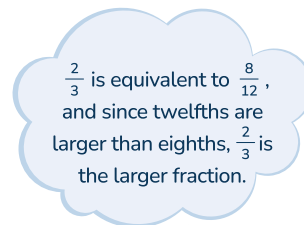
- 35 A class is comparing the fractions $\frac{2}{3}$ and $\frac{7}{8}$. Below are 3 students' responses.



Charles



Gabbi



Todd

Which student's answer and explanation is correct?

- A. Charles
 - B. Gabbi
 - C. Todd
 - D. None of the students
-
- 36 Randy has 9 cups of water. He uses $2\frac{7}{8}$ cups to water his snake plant. He uses $3\frac{5}{8}$ cups to water his spider plant. How much water is left?

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

37 Which polygon can have exactly one pair of parallel sides?

- A. trapezoid
 - B. parallelogram
 - C. right triangle
 - D. rhombus
-

38 Which of the choices is less than 5,067?

- A. fifty-four hundreds, 5 tens and 6 ones
 - B. four thousands, 14 hundreds, 11 tens
 - C. Thirty-eight hundreds, 70 tens, 13 ones
 - D. Five thousands, 12 tens
-

39 Dante says all numbers that end in 7 are prime. Which number proves Dante wrong?

- A. 7
- B. 17
- C. 27
- D. 37

- 40 Ingrid had 1 whole watermelon. She ate $\frac{1}{12}$ of the watermelon on Monday, $\frac{3}{12}$ of the watermelon on Tuesday, and $\frac{4}{12}$ of the watermelon on Wednesday. What fraction of the watermelon was left after Wednesday?

A. $\frac{8}{12}$

B. $\frac{4}{12}$

C. $\frac{30}{12}$

D. $\frac{6}{12}$

-
- 41 Which list is made of only composite numbers?

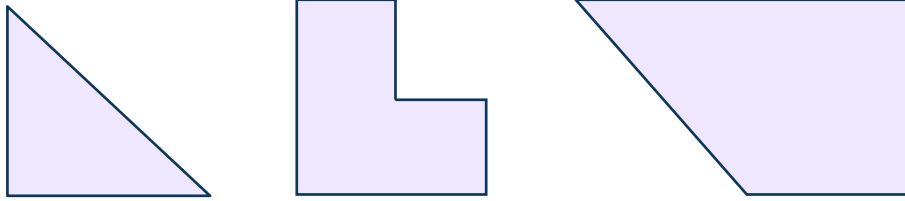
A. 2, 4, 6, 8

B. 1, 5, 10, 15

C. 7, 11, 13, 19

D. 4, 9, 16, 25

- 42 Theo sorts these figures into the same group.



Which statement best describes the figures in this group?

- A. Each figure has at least one pair of perpendicular lines.
- B. Each figure has at least one acute angle.
- C. Each figure has at least one obtuse angle.
- D. Each figure has at least one pair of parallel lines.

-
- 43 Below is a list of the weight of common coins.

- penny: $\frac{9}{100}$ of an ounce
- quarter: $\frac{2}{10}$ of an ounce
- nickel: $\frac{17}{100}$ of an ounce

Which combinations of coins weigh exactly 1 ounce?

- A. 1 penny, 3 quarters, 5 nickels
- B. 9 pennies, 1 quarter, 1 nickel
- C. 3 pennies, 1 quarter, 3 nickels
- D. 1 penny, 2 quarters and 3 nickels

44 Which set of numbers are all multiples of 8?

- A. 8, 16, 24, 32
- B. 1, 2, 4, 8
- C. 1, 8, 16, 24
- D. 16, 24, 32, 44

45 Fran has 345 small plants. Neo has 79 more small plants than Fran. Fran and Neo will store their plants in a greenhouse over the winter. Each shelf in the greenhouse fits 9 plants. How many shelves are needed to fit all of Fran and Neo's plants?

- A. 85
- B. 86
- C. 47
- D. 48

Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	D	NC.4.NF.7	DOK 2
2	C	NC.4.OA.1	DOK 2
3	D	NC.4.NBT.5	DOK 2
4	A	NC.4.NF.1	DOK 2
5	C	NC.4.NF.3	DOK 2
6	B	NC.4.NBT.5	DOK 2
7	D	NC.4.NBT.1	DOK 1
8	A	NC.4.NBT.4	DOK 2
9	B	NC.4.NF.2	DOK 2
10	A	NC.4.OA.3	DOK 2
11	B	NC.4.MD.4	DOK 2
12	C	NC.4.NBT.6	DOK 2
13	A	NC.4.NF.4	DOK 2
14	C	NC.4.OA.5	DOK 2
15	D	NC.4.NBT.4	DOK 3
16	B	NC.4.NF.1	DOK 2
17	A	NC.4.MD.6	DOK 1

North Carolina State Practice Math Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
18	B	NC.4.NBT.6	DOK 2
19	A	NC.4.OA.1, NC.4.OA.3	DOK 3
20	C	NC.4.NBT.4	DOK 2
21	D	NC.4.NBT.2, NC.4.NBT.7	DOK 2
22	C	NC.4.MD.6	DOK 1
23	B	NC.4.MD.1, NC.4.NBT.6	DOK 1
24	A	NC.4.NF.6	DOK 2
25	D	NC.4.G.3	DOK 1
26	C	NC.4.MD.2	DOK 1
27	A	NC.4.OA.5	DOK 2
28	B	NC.4.NF.4	DOK 1
29	C	NC.4.OA.5	DOK 2
30	C	NC.4.MD.3	DOK 2
31	A	NC.4.G.1	DOK 1
32	D	NC.4.MD.8	DOK 2
33	C	NC.4.OA.1	DOK 2
34	B	NC.4.MD.2	DOK 2
35	B	NC.4.NF.2	DOK 3
36	D	NC.4.NF.3	DOK 2

North Carolina State Practice Math Test | Grade 4 | Answers

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

ANSWERS SORTED BY STANDARD

OA			
2	C	NC.4.OA.1	DOK 2
10	A	NC.4.OA.3	DOK 2
14	C	NC.4.OA.5	DOK 2
19	A	NC.4.OA.1, NC.4.OA.3	DOK 3
27	A	NC.4.OA.5	DOK 2
29	C	NC.4.OA.5	DOK 2
33	C	NC.4.OA.1	DOK 2
39	C	NC.4.OA.4	DOK 2
41	D	NC.4.OA.4	DOK 1
44	A	NC.4.OA.4	DOK 1
45	B	NC.4.OA.3	DOK 2

North Carolina State Practice Math Test | Grade 4 | Answers

NBT			
3	D	NC.4.NBT.5	DOK 2
6	B	NC.4.NBT.5	DOK 2
7	D	NC.4.NBT.1	DOK 1
8	A	NC.4.NBT.4	DOK 2
12	C	NC.4.NBT.6	DOK 2
15	D	NC.4.NBT.4	DOK 3
18	B	NC.4.NBT.6	DOK 2
20	C	NC.4.NBT.4	DOK 2
21	D	NC.4.NBT.2, NC.4.NBT.7	DOK 2
23	B	NC.4.MD.1, NC.4.NBT.6	DOK 1
38	C	NC.4.NBT.2	DOK 2

North Carolina State Practice Math Test | Grade 4 | Answers

NF			
1	D	NC.4.NF.7	DOK 2
4	A	NC.4.NF.1	DOK 2
5	C	NC.4.NF.3	DOK 2
9	B	NC.4.NF.2	DOK 2
13	A	NC.4.NF.4	DOK 2
16	B	NC.4.NF.1	DOK 2
24	A	NC.4.NF.6	DOK 2
25	D	NC.4.G.3	DOK 1
26	C	NC.4.MD.2	DOK 1
28	B	NC.4.NF.4	DOK 1
35	B	NC.4.NF.2	DOK 3
36	D	NC.4.NF.3	DOK 2
40	B	NC.4.NF.3	DOK 2
43	D	NC.4.NF.6	DOK 2

North Carolina State Practice Math Test | Grade 4 | Answers

MD			
11	B	NC.4.MD.4	DOK 2
17	A	NC.4.MD.6	DOK 1
22	C	NC.4.MD.6	DOK 1
23	B	NC.4.MD.1, NC.4.NBT.6	DOK 1
26	B	NC.4.MD.2	DOK 1
30	C	NC.4.MD.3	DOK 2
32	D	NC.4.MD.8	DOK 2
34	B	NC.4.MD.2	DOK 2




G			
25	D	NC.4.G.3	DOK 1
31	A	NC.4.G.1	DOK 1
37	A	NC.4.G.2	DOK 1
42	A	NC.4.G.2	DOK 2

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