


**Analyzing Student Misconceptions:** The state has identified areas in which students are not meeting mastery. Double check our Stage One to determine if we are teaching everything our students need to know, understand, and do. Focus on the questions related to the current unit and take the remaining questions back to your teams to ensure time for planning.



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# Analyzing Student Performance

## What do you notice?

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## 4<sup>th</sup> Grade – 4.NF.1



6 What fraction of the circle is shaded?



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

- A. 49%
- B. 34%
- C. 11%
- D. 6%

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## 4<sup>th</sup> Grade – 4.NF.1



15 Lisa had a set of 12 toy cars.



Then she gave her sister 3 cars. What fraction of Lisa's set did Lisa give to her sister?

- A  $\frac{3}{4}$
- B  $\frac{1}{4}$
- C  $\frac{3}{12}$
- D  $\frac{1}{3}$

- A. 15%
- B. 6%
- C. 45%
- D. 33%

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## 4<sup>th</sup> Grade – 4.NF.2



22 Marcie and Alexis went running. The distance Alexis ran was farther than the distance Marcie ran. Marcie ran  $\frac{5}{8}$  of a mile. Which could be the distance Alexis ran?

- A  $\frac{2}{3}$  mile
- B  $\frac{10}{16}$  mile
- C  $\frac{1}{2}$  mile
- D  $\frac{3}{8}$  mile

- A. 11%
- B. 12%
- C. 36%
- D. 41%

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## 4<sup>th</sup> Grade – 4.NF.1



21 Which fraction is equivalent to  $\frac{75}{100}$  ?

A  $\frac{3}{4}$

B  $\frac{3}{6}$

C  $\frac{1}{3}$

D  $\frac{1}{4}$

- A. 8%
- B. 8%
- C. 19%
- D. 65%

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## 4<sup>th</sup> Grade – 4.NF.2



28 The lengths and widths of four rectangles are shown below. Which rectangle has a perimeter of 20 ft?

- A length = 10 ft, width = 10 ft
- B length = 9 ft, width = 1 ft
- C length = 7 ft, width = 2 ft
- D length = 5 ft, width = 2 ft

- A. 58%
- B. 34%
- C. 3%
- D. 5%

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## 4<sup>th</sup> Grade – 4.NF.3



7 Daniel has a set of red, green, and blue marbles.

- The red marbles make up exactly  $\frac{1}{2}$  of the set.
- The set has 2 blue marbles.
- The number of green marbles is twice the number of blue marbles.

How many marbles are in Daniel's set?

- A 4
- B 6
- C 8
- D 12

- A. 15%
- B. 17%
- C. 26%
- D. 42%



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## 4<sup>th</sup> Grade – 4.NF.3



17 At the supermarket, Jalen bought three kinds of meat. He purchased  $\frac{1}{4}$  pound of roast beef,  $\frac{3}{4}$  pound of ham, and  $\frac{3}{4}$  pound of turkey. Which choice describes the total weight of the meats?

- A less than 1 pound
- B between 1 and  $1\frac{1}{2}$  pounds
- C between  $1\frac{1}{2}$  and 2 pounds
- D more than 2 pounds

A. 13%  
B. 21%  
C. 54%  
D. 11%

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## 4<sup>th</sup> Grade – 4.NF.4



18 What is the value of  $N$  in the equation below?

$$4 \times \frac{3}{4} = N$$

- A  $\frac{12}{16}$
- B  $\frac{7}{4}$
- C 3
- D 4

- A. 55%
- B. 14%
- C. 25%
- D. 1%

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## 4<sup>th</sup> Grade – 4.NF.5



19 Vicky poured  $\frac{50}{100}$  liter of water into a bowl. Susan poured  $\frac{3}{10}$  liter of water into the same bowl. What was the total amount of water the girls poured into the bowl?

- A  $\frac{8}{10}$  liter
- B  $\frac{8}{100}$  liter
- C  $\frac{53}{10}$  liters
- D  $\frac{53}{100}$  liter

- A. 23%
- B. 7%
- C. 10%
- D. 61%

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## 4<sup>th</sup> Grade – 4.NF.6



26 Which choice is equal to 2.5?

A  $\frac{2}{5}$

B  $2\frac{1}{5}$

C  $2\frac{4}{10}$

D  $\frac{5}{2}$

A. 23%

B. 7%

C. 10%

D. 61%

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## 4<sup>th</sup> Grade – 4.OA.2



- 1 Mrs. Harper ordered 3 different colors of markers.
- She ordered 25 of each color marker.
  - She also ordered some pencils.
  - She ordered 3 times as many pencils as markers.

How many pencils did Mrs. Harper order?

- A 675
- B 225
- C 75
- D 25



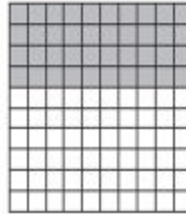
A. 4%  
B. 59%  
C. 35%  
D. 1%

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## 4<sup>th</sup> Grade – 4.NF.7



36 Which decimal is less than the fraction shaded in the grid below?



- A 0.46
- B 0.50
- C 0.36
- D 0.40

- A. 57%
- B. 40%
- C. 2%
- D. 3%

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## 4<sup>th</sup> Grade – 4.OA.2



10 Tom has twice as many marbles as Luke. Together they have 39 marbles. How many marbles does Tom have?

- A 26
- B 25
- C 14
- D 13

A. 43%  
B. 17%  
C. 20%  
D. 21%

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## 4<sup>th</sup> Grade – 4.OA.2



20 Mark and Leonard went bird-watching.

- Leonard saw 4 times as many red birds as Mark.
- Leonard saw 28 red birds.

Which equation could be used to find how many red birds Mark saw ( $n$ )?

- A  $4 \times 28 = n$
- B  $28 - 4 = n$
- C  $4 + 28 = n$
- D  $28 \div 4 = n$

- A. 47%
- B. 4%
- C. 5%
- D. 45%



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## 4<sup>th</sup> Grade – 4.OA.3



11 There were 28 white ducks swimming in a pond.

- Twice as many brown ducks flew in and landed in the pond.
- Then half of the white ducks flew away.

How many ducks remained in the pond?

- A 14
- B 28
- C 56
- D 70

- A. 24%
- B. 29%
- C. 14%
- D. 33%

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## 4<sup>th</sup> Grade – 4.NBT.2



24 One number has 4 thousands, 12 hundreds, and 0 tens. Another number has 4 thousands, 6 hundreds, and 5 tens. Which choice correctly compares the two numbers?

- A  $4,120 < 4,650$
- B  $4,200 < 4,650$
- C  $5,200 > 4,065$
- D  $5,200 > 4,650$

- A. 60%
- B. 7%
- C. 5%
- D. 28%

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## 4<sup>th</sup> Grade – 4.NBT.2



34 Which choice has a total of 4,520?

- A 45 hundreds and 52 tens
- B 45 hundreds and 20 tens
- C 40 hundreds and 62 tens
- D 38 hundreds and 72 tens

A. 23%  
B. 62%  
C. 4%  
D. 11%

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## 4<sup>th</sup> Grade – 4.NBT.3



25 During the first year, a bakery sold 37,580 bags of cookies. During the second year, the bakery sold 5,000 more bags than were sold the first year. What is the total number of bags of cookies sold during the first two years, rounded to the nearest 1,000?

- A 43,000
- B 44,000
- C 80,000
- D 82,000

- A. 62%
- B. 13%
- C. 20%
- D. 5%

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## 4<sup>th</sup> Grade – 4.NBT.6



14 There are 638 students at a museum. All the students will tour the museum in groups of up to 6 students. What is the smallest number of tour groups that can be used?

A 16

B 17

C 106

D 107

A. 25%

B. 11%

C. 28%

D. 26%

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## 4<sup>th</sup> Grade – 4.NBT.3



43 Sabrina rounded the size of a park to the nearest thousand acres. Her estimate was 276,000 acres. What number could be the exact number of acres?

- A 276,543
- B 276,479
- C 275,424
- D 275,289

- A. 14%
- B. 15%
- C. 53%
- D. 18%

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## 4<sup>th</sup> Grade – 4.G.3

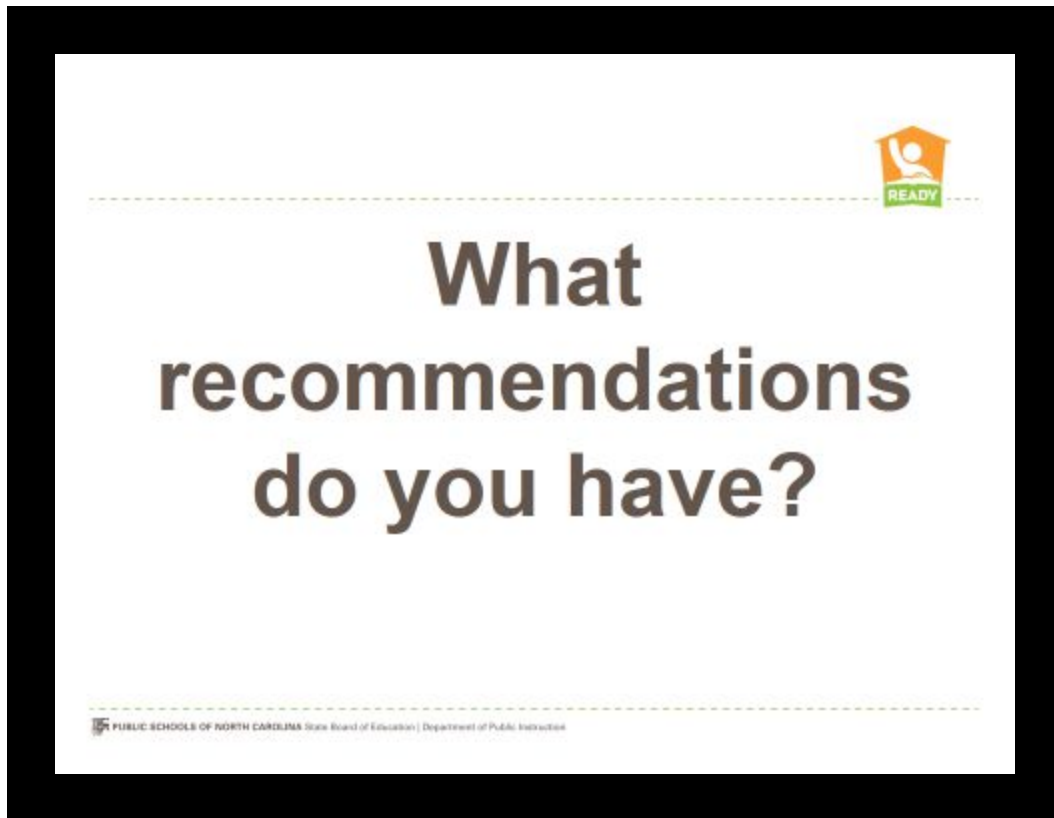



42 The sides of a rectangle measure 2 inches and 4 inches. How many lines of symmetry does the rectangle have?

- A 2
- B 3
- C 4
- D 8


A. 42%  
B. 6%  
C. 33%  
D. 19%

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READY

**What  
recommendations  
do you have?**

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