4th Grade FL BEST State Test

State Test Grade 4

Grade 4

Questions

Name: ....

Class: ....

Date: ....

Score: ....

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1 Which of the following statements correctly compares the two decimals below?
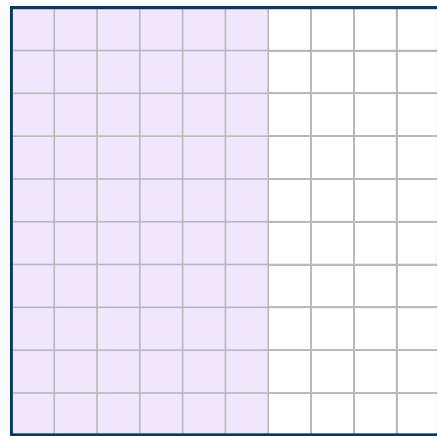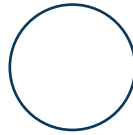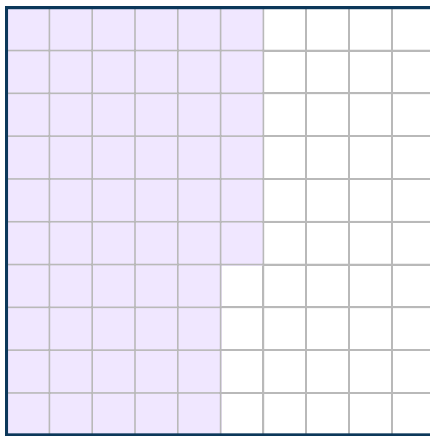
A. 0.56 > 0.6

B. 5.6 > 0.6

C. 0.56 < 0.6

D. 56 < 6

---

2 Leah is organizing books on her bookshelf. She placed 3 times as many fiction books as non-fiction books. If there are 18 fiction books, how many non-fiction books are there?

A. 54 non-fiction books

B. 6 non-fiction books

C. 3 non-fiction books

D. 36 non-fiction books

3 Using the following rectangular array, Lily solves 42 × 16.

400	20
?	12

What missing number will complete Lily's array?

A. 6

B. 24

C. 100

D. 240

---

4 Which set of numbers includes all factors of 24?

A. 24, 48, 72, 96

B. 1, 2, 3, 4, 6, 9, 12, 18, 36

C. 1, 2, 4, 6, 12, 24

D. 1, 2, 3, 4, 6, 8, 12, 24

5 Maria works at a bakery. They have 25 pounds of flour. Maria uses the flour in servings of ounces. How many ounces of flour does the bakery have?
(1 pound = 16 ounces)

A. 41 ounces

B. $1\frac{1}{2}$ ounces

C. 400 ounces

D. 150 ounces

**6** Which of the following shows a correct way to write 459,360? Select all correct answers.

A. (4 × 100,000) + (5 × 10,000) + (9 × 1,000) + (3 × 100) + (6 × 10)

B. Four fifty-nine thousand three hundred sixty

C. (4 × 100,000) + (5 × 1,000) + (9 × 100) + (3 × 10) + (6 × 1)

D. Four hundred fifty-nine thousand three hundred sixty

7 Micah is comparing the values of each digit in the numbers 256,913 and 29,536.

Which statements are true? Select all correct answers.

   A. The value of the digit 3 in 256,913 is ten times greater than in 29,536.
   B. The value of the digit 9 in 29,536 is ten times greater than in 256,913.
   C. The value of the digit 6 in 29,536 is one thousand times less than in 256,913.
   D. The value of the digit 5 in 256,913 is one thousand times greater than in 29,536.
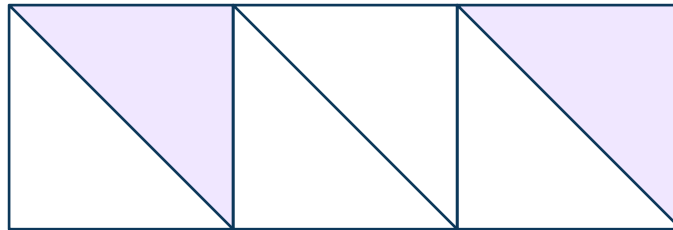   E. The value of the digit 2 in 256,913 is one hundred times greater than in 29,536.

8 Examine the Venn diagram.

Factors of 24   Factors of 56
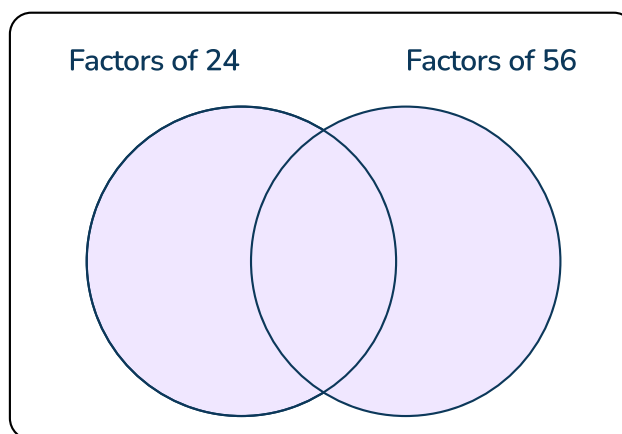
What is the greatest number that belongs in the middle of the Venn diagram?

   A. 16
   B. 8
   C. 4
   D. 2

9 Jay drew a rectangle with 6 equal parts. He shaded 2 of them. What fraction of the rectangle is shaded?

A. $\dfrac{1}{3}$

B. $\dfrac{2}{3}$

C. $\dfrac{1}{6}$

D. $\dfrac{1}{2}$

10 A baker has 423 cookies and wants to divide them equally into packages, each containing 8 cookies. How many full packages of 8 cookies can the baker make?

A. 52 $\dfrac{7}{8}$ packages

B. 52 R 7 packages

C. 52 packages

D. 53 packages

11 The line plot shows the lengths of Larissa's ribbons.
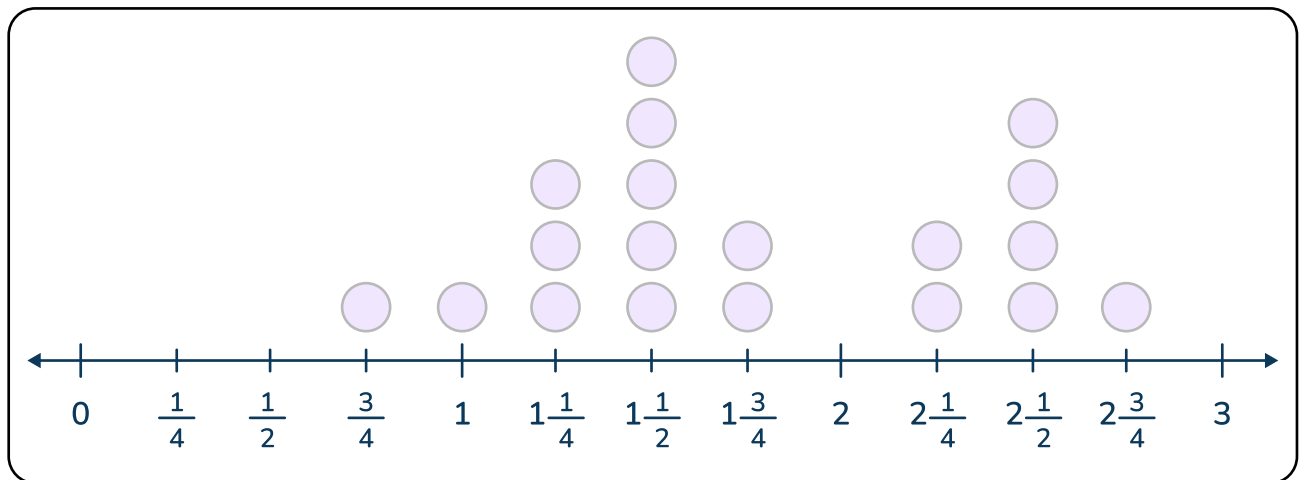
What is the difference between the longest and shortest ribbon?

A. $2\frac{3}{4}$ feet

B. 2 feet

C. $1\frac{3}{4}$ feet

D. $\frac{3}{4}$ feet

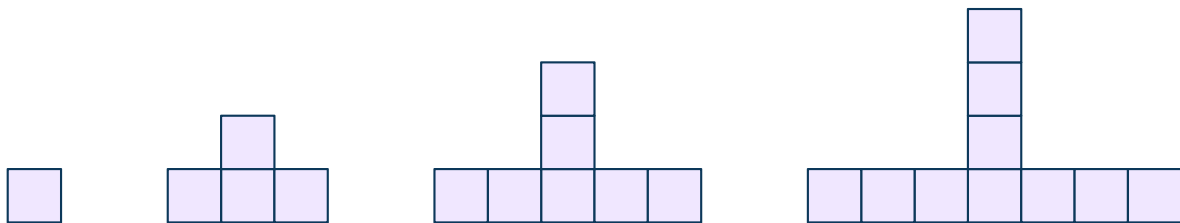**12** When rounded to the nearest hundred, which of the following numbers rounds to 700? Select all correct answers.

A. 563
B. 765
C. 681
D. 728
E. 639

13 Archie plotted point A on the number line to represent a fraction. Which decimal represents Archie's fraction?

A. 0.03

B. 0.4

C. 0.04

D. 0.3

14 Look at the figures below. If the pattern continues, how many squares will make up the 8th figure?
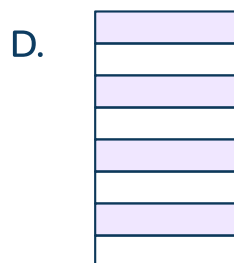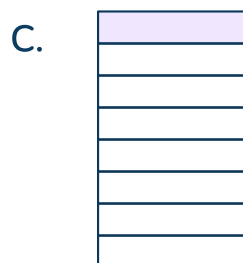

A. 22

B. 10

C. 16

D. 19

15 Julian walked $1\frac{6}{10}$ miles to school. Then he walked another $\frac{7}{10}$ mile to the library. How far did he walk altogether?

A. $2\frac{13}{10}$ miles

B. $\frac{13}{10}$ miles

C. $1\frac{3}{10}$ miles

D. $2\frac{3}{10}$ miles

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

A.

B.

C.

D.
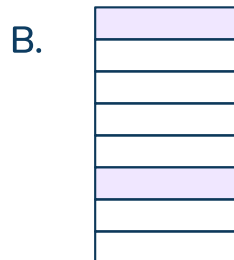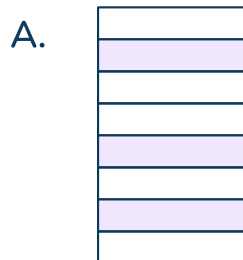
17 Right triangle XYZ is divided into two parts. The measure of angle XYW is 43 degrees. What is the measure of angle WYZ?
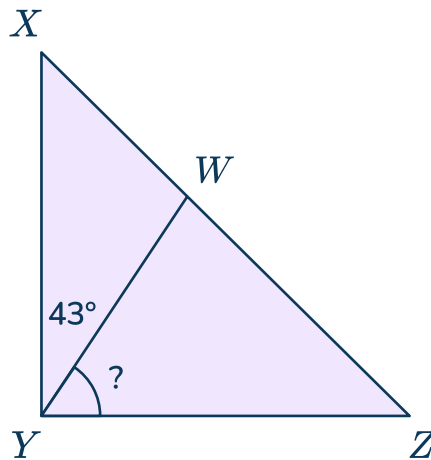
A. 53°

B. 57°

C. 47°

D. 90°

---

18 Starting number: 128

Rule: add 15 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 first number is odd and the rest are even.

D. The numbers alternate between even and odd.

19 Which equation is false?

A. $7 \times 4 = 13 + 15$

B. $31 - 5 = 9 \times 4$

C. $56 \div 7 = 4 \times 2$

D. $12 \times 4 = 40 + 2 + 2 + 2 + 2$

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20 What is the measure of the angle?
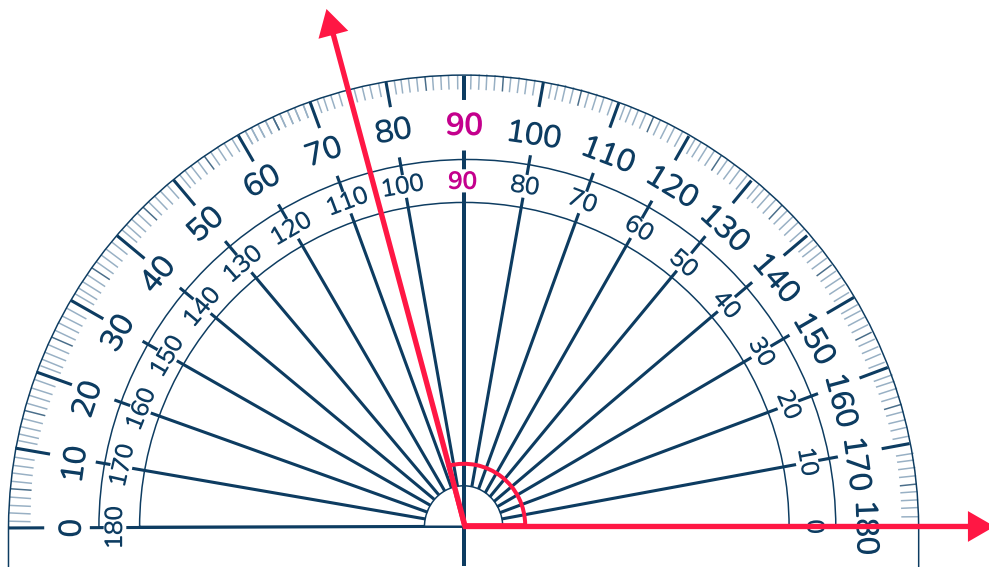
A. 105°

B. 85°

C. 75°

D. 115°

21 Mia has 72 pieces of candy. She splits the candy equally between 8 bags. How many pieces of candy are in each bag?

Which equation represents the word problem? Select all that apply.

A. $72 - 8 = ?$
B. $8 \times ? = 72$
C. $72 \div 8 = ?$
D. $8 + ? = 72$

22 A farmer is planting a new orchard and plans to plant 198 rows of apple trees. Each row in the orchard will have 47 trees.
Which equation would give the best estimate of the total number of trees?

A. $200 \times 40 = 8{,}000$ trees
B. $200 \times 100 = 20{,}000$ trees
C. $150 \times 50 = 7{,}500$ trees
D. $200 \times 50 = 10{,}000$ trees

23 Which table shows the relationship between gallons and pints?
(1 gallon = 8 pints)

A.

pints	gallons
1	8
2	16
3	24

B.

pints	gallons
1	8
2	10
3	12

C.

pints	gallons
8	1
16	2
24	3

D.

pints	gallons
8	1
10	2
12	3

24 Michael lives $\frac{5}{6}$ of a mile from the school. Sophie lives 4 times farther than Michael. How many miles does Sophie live from the school?

A. $3\frac{1}{6}$ miles

B. $4\frac{5}{6}$ miles

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

D. $3\frac{1}{3}$ miles

25 What is the value of 426 × 8?

A. 3,504

B. 3,264

C. 3,408

D. 3,416

26 Which process shows a correct way to add the fractions below?

$$\frac{4}{100} + \frac{7}{10}$$

A. $\frac{4}{100} + \frac{7}{10} = \frac{4+7}{100+10} = \frac{11}{110}$

B. $\frac{4}{100} + \frac{7}{10} = \frac{4+70}{100} = \frac{74}{100}$

C. $\frac{4}{100} + \frac{70}{10} = \frac{4+70}{100+10} = \frac{74}{110}$

D. $\frac{4}{100} + \frac{70}{100} = \frac{4+70}{100+100} = \frac{74}{200}$

---

27 A 75° angle is decomposed into two angles, one of which is 39°. What is the measure of the other angle?

A. 36°

B. 114°

C. 46°

D. 44°

28 Liam is baking cookies for a school event. He uses $\frac{2}{3}$ of a cup of sugar for each batch of cookies. If Liam makes 5 batches of cookies, how many cups of sugar does he use in all?

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

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

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

D. $1\frac{2}{3}$ cups

29 Which shows 5,486 rounded to the nearest hundred on a number line?

A.

| 5,000 | 5,486 | | 6,000 |

B.

| 5,400 | 5,486 | | 5,500 |

C.

| 5,480 | | 5,486 | 5,490 |

D.

| 5,400 | | 5,486 | 5,500 |

30 What is the area of the rectangle?

12 feet

8 feet
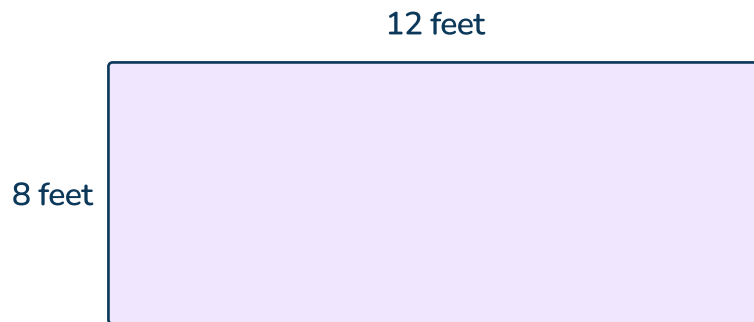
A. 40 feet

B. 96 square feet

C. 20 square feet

D. 84 feet

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31 Julia drew the angle shown below. What type of angle did she draw?
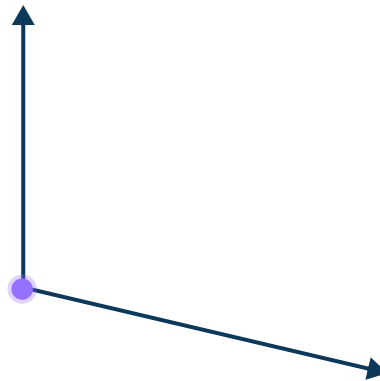
A. obtuse

B. acute

C. right

D. straight

32 Tom read for 42 minutes. Then he played outside for 1 hour before he spent time eating dinner. If he started reading at 3:50 pm and finished eating dinner at 6:07 pm, how long did he spend eating dinner?

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

33 An item costs $8.59. If you give the cashier a $10 bill, how much change should you receive?

    A. $1.49
    B. $1.41
    C. $0.41
    D. $2.41

34 Brian wants to build a rectangular garden with an area of 36 square feet. Which of the following could be the perimeter of his garden? Select all correct answers.

    A. 24 feet
    B. 12 feet
    C. 20 feet
    D. 26 feet
    E. 30 feet

35 Round 78,396 to the nearest thousand.

    A. 70,000
    B. 80,000
    C. 78,000
    D. 79,000

36 Which of the following number sentences represents $\frac{13}{8}$?
Select all correct answers.

A. $\frac{4}{8} + \frac{3}{8} + \frac{5}{8} + \frac{1}{8}$

B. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{8}{8}$

C. $\frac{5}{8} + \frac{3}{8} + \frac{10}{8}$

D. $\frac{8}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

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37 Which shape does NOT appear to have a right angle?

A.

B.

C.

D.
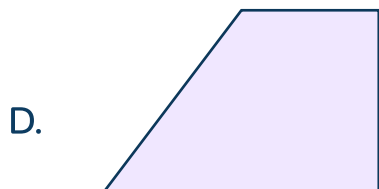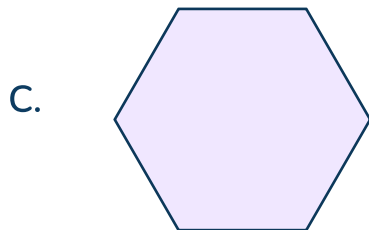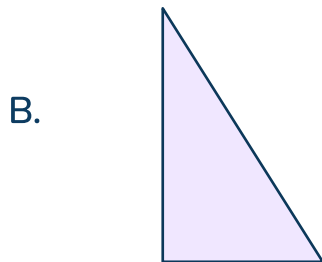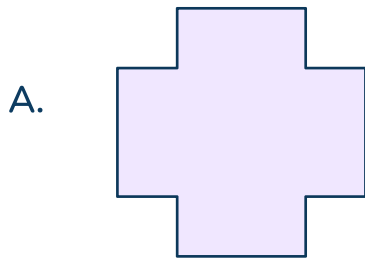
38 Which number is one-hundredth less than 2.5?

    A. 2.4

    B. 2.04

    C. 1.5

    D. 2.49

---

39 Which comparison is incorrect?

    A. 910,635 > 910,653

    B. 806,317 < 860,317

    C. 295,674 > 259,674

    D. 375,280 < 375,820

40 Which comparison is correct?

A. $\frac{1}{8} > \frac{1}{4}$

B. $\frac{7}{8} < \frac{2}{3}$

C. $\frac{3}{5} > \frac{1}{2}$

D. $\frac{4}{5} < \frac{7}{10}$

Standard: MA.4.NSO.2.4

DOK 3

Short Answer Response - 5 points

41 Tristan used the following strategy to solve 1,764 ÷ 6.

		2	1	3		
6) 1,	7	6	4			
−	6	0	0	100	(100 × 6)
	1,	1	6	4		
−	6	0	0	100	(100 × 6)
		5	6	4		
−	5	4	0	9	(9 × 6)
			2	4		
−	2	4	4	(4 × 6)
			0		
			213		

A. Explain Tristan's strategy, including identifying any mistakes.

B. Use Tristan's strategy to solve the equation correctly. Show the final quotient.

_____
_____
_____

Item	KEY	Rationale
41	5 points	Student correctly explains the strategy and the mistake Tristan made and then uses the strategy to solve correctly (partial product 9 should be 90). E.g. 90 × 6 gives us 540, not 9 × 6. Student correctly divides by adding the partial quotients of 100 + 100 + 90 + 4 = 294.
	2.5 points	Student correctly solves using Tristan's strategy OR correctly explains the mistake.
	0 points	Student does not correctly explain the mistake AND does not correctly solve the equation using Tristan's strategy.

Standard: MA.4.NSO.2.7, MA.4.M.2.2
DOK 3
Short Answer Response - 5 points

42 Carlos is at a café looking at the menu. He wants to buy a sandwich that costs $6.55 and a smoothie that costs $4.39. Carlos has $10 with him.

A. Calculate the total cost of the sandwich and smoothie. Show your work.
B. Determine if Carlos has enough money to buy both items. If he does not have enough money, how much more does he need? Show your work.

Item	KEY	Rationale
42	5 points	To receive 5 points, students need to add to find the cost of the two items. $6.55 + $4.39 = $10.94 Then students need to state that Carlos does not have enough money and that he needs $0.94 more to buy both items.
	2.5 points	Students will receive 2.5 points if they only complete one part of the problem (either finding the total OR stating he doesn't have enough money and how much more he needs).
	0 points	Students will receive 0 points if they leave the response blank, or if they do not solve correctly.

Standard: MA.4.FR.1.4

DOK 3

Short Answer Response - 5 points

43 A class is comparing the fractions $\frac{3}{4}$ and $\frac{7}{8}$. Below are 3 students' responses.

> 3 and 4 are smaller than 7 and 8, so $\frac{3}{4}$ is a smaller fraction.

Nolan

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

Jasmine

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

Josiah

_____

_____

_____

Item	KEY	Rationale
43	5 points	Student identifies and explains all the correct and incorrect parts… • Nolan compared the numerator and denominator separately, which is incorrect. Even though he had the right answer, his reasoning was wrong. • Jasmine saw that both numerators were 1 away from a whole, so each fraction is only missing one part. Since fourths are larger, they will be farther away from 1 than eighths. Her answer and reasoning are correct. • Josiah creates equivalent fractions to compare numerators. However, he is wrong when he says twelfths are larger; they are smaller, making $\frac{7}{8}$ the bigger fraction.
	2.5 points	Student explains most correct and incorrect parts (missing no more than 1 part) OR student makes 1 mistake.
	0 points	Students do not identify most correct or incorrect parts OR make multiple mistakes.

Answer Key - Multiple Choice

Item number	Correct answer	Standard(s)	DOK
1	C	MA.4.NSO.1.5	DOK 1
2	B	MA.4.AR.1.1	DOK 2
3	D	MA.4.NSO.2.2	DOK 2
4	D	MA.4.AR.3.1	DOK 1
5	C	MA.4.M.1.2, MA.4.NSO.2.3	DOK 2
6	A, D	MA.4.NSO.1.2	DOK 1
7	B, C	MA.4.NSO.1.1	DOK 1
8	B	MA.4.AR.3.1	DOK 2
9	A	MA.4.FR.1.3	DOK 2
10	C	MA.4.AR.1.1, MA.4.NSO.2.4	DOK 2
11	B	MA.4.DP.1.1, MA.4.DP.1.2, MA.4.DP.1.3, MA.4.FR.2.2	DOK 2
12	C, D	MA.4.NSO.1.4	DOK 1
13	D	MA.4.FR.1.2	DOK 2
14	A	MA.4.AR.3.2	DOK 2
15	D	MA.4.AR.1.2	DOK 2
16	B	MA.4.FR.1.3	DOK 2
17	C	MA.4.GR.1.2, MA.4.GR.1.3	DOK 2
18	D	MA.4.AR.3.2	DOK 2
19	B	MA.4.AR.2.1	DOK 2

Florida State Test | Grade 4 | Answers

Item number	Correct answer	Standard(s)	DOK
20	A	MA.4.GR.1.2	DOK 1
21	B, C	MA.4.AR.2.2	DOK 2
22	D	MA.4.NSO.2.5	DOK 1
23	C	MA.4.M.1.2	DOK 1
24	D	MA.4.FR.2.4	DOK 2
25	C	MA.4.NSO.2.2	DOK 1
26	B	MA.4.FR.2.3	DOK 2
27	A	MA.4.GR.1.3	DOK 1
28	C	MA.4.AR.1.3	DOK 2
29	D	MA.4.NSO.1.4	DOK 2
30	B	MA.4.GR.2.1	DOK 1
31	A	MA.4.GR.1.1	DOK 1
32	C	MA.4.M.2.1	DOK 2
33	B	MA.4.M.2.2	DOK 1
34	A, D, E	MA.4.GR.2.2	DOK 2
35	C	MA.4.NSO.1.4	DOK 1
36	A, D	MA.4.FR.2.1	DOK 2
37	C	MA.4.GR.1.1	DOK 1
38	D	MA.4.NSO.2.6	DOK 2
39	A	MA.4.NSO.1.3	DOK 1
40	C	MA.4.FR.1.4	DOK 2

ANSWERS SORTED BY FL BEST STRAND

		NSO	
1	C	**MA.4.NSO.1.5**	DOK 1
3	D	**MA.4.NSO.2.2**	DOK 2
6	A, D	**MA.4.NSO.1.2**	DOK 1
7	B, C	**MA.4.NSO.1.1**	DOK 1
12	C, D	**MA.4.NSO.1.4**	DOK 1
22	D	**MA.4.NSO.2.5**	DOK 1
25	C	**MA.4.NSO.2.2**	DOK 1
29	D	**MA.4.NSO.1.4**	DOK 2
35	C	**MA.4.NSO.1.4**	DOK 1
38	D	**MA.4.NSO.2.6**	DOK 2
39	A	**MA.4.NSO.1.3**	DOK 1
41	Short answer response	**MA.4.NSO.2.4**	DOK 3

Florida State Test | Grade 4 | Answers

FR			
9	A	MA.4.FR.1.3	DOK 1
13	D	MA.4.FR.1.2	DOK 2
16	B	MA.4.FR.1.3	DOK 2
24	D	MA.4.FR.2.4	DOK 2
26	B	MA.4.FR.2.3	DOK 2
36	A,D	MA.4.FR.2.1	DOK 2
40	C	MA.4.FR.1.4	DOK 2
43	Short answer response	MA.4.FR.1.4	DOK 3

AR			
2	B	MA.4.AR.1.1	DOK 2
4	D	MA.4.AR.3.1	DOK 1
8	B	MA.4.AR.3.1	DOK 2
10	C	MA.4.AR.1.1, MA.4.NSO.2.4	DOK 2
14	A	MA.4.AR.3.2	DOK 2
15	D	MA.4.AR.1.2	DOK 2
18	D	MA.4.AR.3.2	DOK 2
19	B	MA.4.AR.2.1	DOK 2
21	B, C	MA.4.AR.2.2	DOK 2
28	C	MA.4.AR.1.3	DOK 3

M			
5	C	MA.4.M.1.2, MA.4.NSO.2.3	DOK 2
23	C	MA.4.M.1.2	DOK 1
32	C	MA.4.M.2.1	DOK 2
33	B	MA.4.M.2.2	DOK 1
42	Short answer response	MA.4.NSO.2.7, MA.4.M.2.2	DOK 3

GR			
17	C	MA.4.GR.1.2, MA.4.GR.1.3	DOK 2
20	A	MA.4.GR.1.2	DOK 1
27	A	MA.4.GR.1.3	DOK 1
30	B	MA.4.GR.2.1	DOK 1
31	A	MA.4.GR.1.1	DOK 1
34	A, D, E	MA.4.GR.2.2	DOK 2
37	C	MA.4.GR.1.1	DOK 1

DP			
11	B	MA.4.DP.1.1, MA.4.DP.1.2, MA.4.DP.1.3, MA.4.FR.2.2	DOK 2

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