Next Generation NY Math Rehearsal®

Plus Instruction

LEVEL



Teacher's Guide and Extended Answer Key



We're all about student success! *

Instructional Practice with Guides

1 Α Standard: 4.NF.4b

Guide: When multiplying by a whole number, the whole number has

a denominator of 1.

C 2 Standard: 4.OA.4

Guide: A factor is a number that can be used to make that number

when multiplying.

3 D Standard: 4.OA.3

Guide: When calculating, make sure to multiply before adding.

4 Α Standard: 4.MD.6

Guide: When using the protractor, determine which answer to choose by

deciding if the angle is acute or obtuse.

5 В Standard: 4.NBT.4

Guide: Remember to regroup when the number on the bottom is greater than

the number on the top.

C 6 Standard: 4.NF.1

Guide: To find an equivalent fraction, multiply the numerator and

denominator by the same number.

7 Α Standard: 4.MD.5a

Guide: Each quarter of a circle is 90-degrees.

В 8 Standard: 4.NF.2

Guide: If the numerators of a fraction are the same, then the smaller the

denominator, the greater the fraction.

D Standard: 4.OA.5

> Guide: To find the rule look at the first two terms. The options are either multiply by 2 or add 3. Then look at terms two and three and see which

rule continues to work.

10 C Standard: 4.MD.4

Guide: Total the number of hours represented by each X:

$$1 + 1\frac{1}{2} + 2 + 2 + 2 + 2 + \frac{1}{2} + 3$$

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11 B Standard: 4.MD.5a
Guide: Each quarter of a circle is 90-degrees.

12 Answer: 29,000
Guide: Look to the right of the hundreds place. If the number is five or greater, the hundreds place goes up one more.

Standard: 4.NBT.3

13 *Answer:* Figure B

Explanation: because the two lines form right angles

Guide: Perpendicular lines must form right angles. Intersecting lines

form any other type of angle.

Standard: 4.G.1

14 *Show Your Work:* Back Fence = 192 square feet; Front Fence = 112 square feet;

Difference between the two fences = 80 square feet

Guide: Area is found by multiplying length by width.

To compare the two areas, subtract.

Answer: 80 square feet

Standard: 4.G.1, 4.MD.3

Answer Key

Rehearsal Test 1, Session 1

Multiple-Choice Questions are worth 1 point each.

Question	Answer	Learning Standard	Question	Answer	Learning Standard	
1	D	4.OA.2	21	D	4.OA.4	
2	В	4.NF.1	22	В	4.NBT.2a	
3	D	4.MD.4	23	В	4.G.2b	
4	С	4.NF.2	24	В	4.OA.4	
5	D	4.G.2a	25	В	4.NBT.3	
6	С	4.NBT.1	26	D	4.OA.5	
7	С	4.NF.3a	27	С	4.NBT.2b	
8	В	4.G.3	28	С	4.G.3	
9	Α	4.OA.3	29	D	4.NBT.6	
10	В	4.NF.3a, 4.NF.4a	30	Α	4.MD.6	
11	Α	4.NBT.3				
12	D	4.NF.3c	Rehearsal Test 1, Session 2			
13	С	4.MD.5b	Multiple-Choice Questions are worth 1 point each.			
14	Α	4.OA.3a				
15	В	4.NBT.2a	Question	Answer	Learning Standard	
16	С	4.NF.3c	1	В	4.NBT.5	
17	В	4.OA.4	2	A	4.NF.4b	
18	В	4.NF.3c	3	D	4.NF.3c	
19	С	4.NBT.2b	4	В	4.NF.4a	
20	В	4.G.1	5	В	4.NBT.6	
			3	5	15110	

Each part of a Short-Response Question is worth 1 point.

6 Answer: Angle $M = 55^{\circ}$

Angle N should measure 90°.

(Allow 3° for error, meaning acceptable answers can range from 87° to 93°)

[Please note: the equation editor used for the NY State tests does not include the "degree" symbol (°). Students may type out the word "degrees" or access the symbol by typing option+shift+8.]

4.MD.6

7 Show Your Work: Students should show $14 \times 12 = 168$ or equivalent work.

Answer: 168 bagels

4.NBT.5

8 Answer: Student should draw a number line with a point at $\frac{3}{12}$.

4.G.1

9 **Show Your Work:** City A 64,305 < City B 64,315

Answer: Possible Explanation: City B is greater than City A because City B has a

one in the tens place when City A has a zero in the tens place.

4.NBT.2b

10 Answer: $\frac{8}{12}$ and 4 more pieces

Explanation: Possible Explanation: Find the equivalent fraction by multiplying the

numerator and denominator by 4.

4.NF.2

11 Show Your Work: $\frac{1}{3} \times 5 \text{ OR } 5 \times \frac{1}{3}$

Scorer should NOT accept any answers with an equal sign, as the

question asks for an expression and NOT an equation.

Answer: Alex traveled $\frac{5}{3}$ miles or $1\frac{2}{3}$ miles.

4.NF.4c

12 Show Your Work: Work that shows a reasonable path to the answer $14\frac{8}{5}$ or $15\frac{3}{5}$

Most reasonable work includes: $3\frac{1}{5} + 3\frac{1}{5} + 4\frac{3}{5} + 4\frac{3}{5}$

Answer: $15\frac{3}{5}$ feet

4.NF.3d

13 Show Your Work: Students should show work that shows a reasonable path to the

answer 7 tickets.

Answer: 7 tickets

4.OA.5

Each part of the Extended-Response Question is worth 1 point.

14 *Show Your Work:* Chocolate Chips: $1,600 \times 8 = 12,800$

Peanut Butter: $2,400 \times 6 = 14,400$

12,800 + 14,400 = 27,200

Answer: 27,200 total cookies

4.NBT.5

Rehearsal Test 2, Session 1

Multiple-Choice Questions are worth 1 point each.

Question	Answer	Learning Standard	Question	Answer	Learning Standard
1	С	4.OA.2	16	D	4.OA.5
2	В	4.G.1	17	С	4.NBT.3
3	D	4.NF.2	18	В	4.OA.3a
4	С	4.OA.4	19	С	4.NBT.2
5	Α	4.NF.3c	20	D	4.OA.2
6	Α	4.NBT.5	21	Α	4.NBT.6
7	D	4.OA.4	22	В	4.G.1
8	Α	4.MD.7	23	D	4.MD.6
9	D	4.NF.4b	24	С	4.NBT.5
10	С	4.NBT.3	25	С	4.NBT.4
11	Α	4.NF.1	26	В	4.NF.1
12	С	4.OA.4	27	С	4.OA.4
13	В	4.NBT.1	28	С	4.G.3
14	Α	4.NF.3a	29	В	4.NBT.6
15	D	4.G.2a	30	В	4.NF.2

Rehearsal Test 2, Session 2

Multiple-Choice Questions are worth 1 point each.

Question	Answer	Learning Standard
1	В	4.MD.4
2	D	4.NF.3a
3	D	4.G.3
4	С	4.NF.3b
5	D	4.MD.3

Each part of a Short-Response Question is worth 1 point.

6 Answer:

rectangle

- 4.G.1
- 7 Answer:

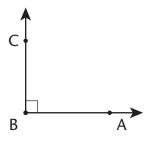
To get the full point, the student should type BOTH:

eight times as many as three < nine times as many as five

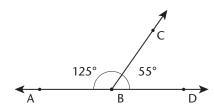
AND

two less than eight = twelve divided by two

- 4.OA.1
- 8 Answer:



- 4.G.1
- 9 Show Your Work: Students should show $180^{\circ} 125^{\circ} = 55^{\circ}$ or equivalent work.



[Please note: the equation editor used for the NY State tests does not include the "degree" symbol (°). Students may type out the word "degrees" or access the symbol by typing option+shift+8.]

Answer:

Angle CBD measures 55°.

- 4.MD.7
- 10 Show Your Work:

Point A represents $1\frac{1}{3}$; Point B represents $2\frac{2}{3}$; $2\frac{2}{3} - 1\frac{1}{3} = 1\frac{1}{3}$

Answer:

 $1\frac{1}{3}$

4.NF.3d

12 **Show Your Work:**
$$$18 \times 4$$$
 weeks $\times 6$ months = 432

$$648 - 432 = $216$$

13 *Show Your Work:*
$$16 \times 9 = 144$$

$$144 - 87 = 57$$

Each part of the Extended-Response Question is worth 1 point.

14 Show Your Work: Short Tower:
$$\frac{3}{5} \times 5 = \frac{15}{5}$$
 inches = 3 inches

Tall Tower:
$$\frac{3}{5} \times 12 = \frac{36}{5}$$
 inches = $7\frac{1}{5}$ inches

$$\frac{36}{5} - \frac{15}{5} = \frac{21}{5}$$
 inches OR $7\frac{1}{5} - 3 = 4\frac{1}{5}$ inches

Answer: The difference between the heights of the towers is
$$4\frac{1}{5}$$
 inches.