

Next Generation NY Math Rehearsal[®] Plus Instruction

Teacher's Guide and Extended Answer Key

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EDUCATION

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Instructional Practice with Guides

In the Student Book, the Instructional Practice provides students with 30 practice questions similar in scope and structure to the actual questions in Sessions 1 and 2. In this Teacher Guide, there are guides that the teacher can provide for the student to help them solve each problem.

1 B 5.MD.1

Guide: Convert the 5 points to 10 cups and add all the cups and then convert the answer to quarts. Use the reference sheet if needed.

2 B 5.NBT.3a

Guide: The expanded form shows that there are 4 thousands, 2 tens, 4 tenths, and 2 thousandths.

3 C 5.MD.2

Guide: To find a total from a line plot, you must add up the value of each X on the line plot.

4 B 5.NF.2

Guide: Calculate the fraction of games that are given and then subtract that fraction from one whole.

5 B 5.MD.4

Guide: Volume = length × width × height

6 C 5.G.3

Guide: Think about the rules of congruency in different shapes.

7 B 5.NBT.1

Guide: The value of the digit 6 in 56,982 is 6,000.

8 B 5.NBT.3b

Guide: There are 10 sections between 1.2 and 1.3, which means that each of those lines represents $\frac{1}{100}$.

9 B 5.NBT.7

Guide: Parentheses go first! Remember to move the decimal when dividing by a divisor with a decimal.

- 10 **Show Your Work:** Work could include $(4 \times 3 \times 2) \times 3$ or any path leading to an equivalent outcome.

Answer: 72 cubic units
5.NY.MD.4

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- 11 **Show Your Work:** Work should include steps that show $9\frac{1}{2} - 3\frac{1}{4} - 2\frac{1}{3}$ or any path leading to an equivalent outcome.

Answer: $3\frac{11}{12}$
5.NF.2

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- 12 **Answer:** Possible Commonalities include:
4 equal sides
Both parallelograms
Both quadrilaterals
Both rhombuses
2 sets of parallel sides

Standard: 5.G.3

Guide: Remember the rules for the properties of a shape.

- 13 **Answer:** Possible Differences include:
1 has all right angles
1 is a square and 1 is a rhombus

Standard: 5.G.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	C	5.NF.5	16	C	5.NF.4a
2	B	5.MD.3b	17	C	5.NBT.3a
3	D	5.NF.1	18	D	5.NBT.3b
4	B	5.NBT.3a	19	C	5.NF.4
5	C	5.NBT.5	20	B	5.MD.2
6	B	5.NF.3	21	A	5.MD.1
7	C	5.NF.6	22	B	5.NBT.1
8	A	5.MD.3	23	C	5.NBT.3a
9	B	5.NF.7a	24	A	5.MD.3a
10	B	5.NF.3	25	A	5.NF.2
11	C	5.NBT.3a	26	B	5.MD.1
12	A	5.NF.5	27	D	5.MD.4
13	C	5.NBT.3b	28	B	5.G.4
14	B	5.NBT.4	29	B	5.G.4
15	D	5.NBT.4	30	C	5.G.4

Rehearsal Test 1, Session 2

Multiple-Choice Questions are worth 1 point each.

Question	Answer	Learning Standard
1	C	5.MD.5b, 5.MD.1
2	A	5.NBT.3a
3	D	5.NF.7a
4	C	5.NF.4a
5	D	5.NF.1

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

6 **Show Your Work:** $12\text{m} \times 4\text{m} \times 6\text{m} = 288$ cubic meters or equivalent work shown.

Answer: 288 cubic meters

5.MD.5a

7 **Show Your Work:** 1 meter = 100 cm.

$$4,000 \text{ cm} \div 100 = 40$$

Answer: 4,000 centimeters = 40 meters

5.MD.1

8 **Show Your Work:** There are six, circles, each with $\frac{2}{3}$ shaded. $6 \times \frac{2}{3}$ or $\frac{2}{3} \times 6$

The answer SHOULD NOT include an equal sign because it asks for an expression, not an equation.

Answer: $6 \times \frac{2}{3}$ or $\frac{2}{3} \times 6$

5.NF.4a

9 **Show Your Work:** $\frac{1}{4} \times 6 = \frac{6}{4}$ or $1\frac{2}{4}$

subtract $4\frac{1}{2} - 1\frac{2}{4}$ to get a difference of 3 quarts

Answer: 3 quarts

5.NF.2, 5.NF.6

10 **Show Your Work:** $4,416 \text{ cubic feet} = 23 \times 16 \times h$; $4,416 = 368 \times h$; $12 \text{ feet} = h$;
 $12 \text{ feet} = 4 \text{ yards}$

Answer: 4 yards

5.MD.5b

11 **Show Your Work:** $368 \times 23 = 8,878$ and $1,456 \times 14 = 20,384$

Answer: Job B pays the most money.

5.NBT.5

12 **Show Your Work:** $\$20,384 - \$8,878 = \$11,506$

Answer: Job B pays \$11,506 more.

5.NBT.5

13 **Show Your Work:** $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

Answer: $\frac{1}{8}$ of the total pie

5.NF.6

14 **Show Your Work:** $25.82 \times 14 = 361.48$

Answer: 361.48 gallons

5.NBT.7

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

15 **Show Your Work:** $2\frac{3}{4} \times \frac{1}{2} = 1\frac{3}{8}$

Answer: $1\frac{3}{8}$ cups of butter

5.NF.6

16 **Show Your Work:** $7.65 \times 6 = 45.90$

Answer: \$45.90

5.NF.6

Rehearsal Test 2, Session 1

Multiple-Choice Questions are worth 1 point each.

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

Rehearsal Test 2, Session 2

Multiple-Choice Questions are worth 1 point each.

Question	Answer	Learning Standard
1	B	5.NBT.5
2	A	5.NBT.3a
3	B	5.NF.1
4	D	5.NF.3
5	C	5.NBT.3b

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

6 **Show Your Work:** $5 \times 3 \times 2 = 30$ or equivalent work shown.

Answer: 30 cubic units

5.MD.5a

7 **Expression:** $\frac{1}{2} \div 3$

5.MD.5a

8 **Show Your Work:** $3 \times 8 = 24$ or equivalent work shown.

Answer: 24 pieces

5.NF.7b

9 **Answer:** Team A had the least amount of time, so they won the race.

5.NBT.2

10 **Explain:** Team A completed the race in 58.24 seconds, Team B completed the race in 64.25 seconds, Team C completed the race in 58.63 seconds.

5.NBT.2

- 11 **Show Your Work:** The area of the room is 54 square feet. $\$5.25 \times 54 = \283.50
Answer: \$283.50
 5.MD.1

- 12 **Show Your Work:** $\frac{1}{3} + \frac{1}{4} + \frac{2}{5} = \frac{59}{60}$
 $\frac{60}{60} - \frac{59}{60} = \frac{1}{60}$
Answer: $\frac{1}{60}$ of her games are board games.
 5.NF.2

- 13 **Expanded Form:** $(5 \times 1,000) + (4 \times 100) + (8 \times 10) + (2 \times 1) + (9 \times 0.1) + (7 \times 0.001)$
 or any other acceptable form including decimals, fractions, or scientific notation.
- 14 **Word Form:** Five thousand, four hundred eighty-two and nine hundred seven thousandths
 5.NBT.3a

- 15 **Show Your Work:** $15 \times 3\frac{1}{2} = 52\frac{1}{2}$; $23 \times \frac{4}{5} = 18\frac{2}{5}$; $52\frac{1}{2} + 18\frac{2}{5} = 70\frac{9}{10}$
Answer: $70\frac{9}{10}$ pounds
 5.NF.4

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

- 16 **Show Your Work:** $48 \div \frac{1}{4} = 48 \times 4 = 192$; $192 \times 3.25 = 624$
Answer: \$624
 5.NF.3, 5.NF.6