



New York State
EDUCATION DEPARTMENT
Knowledge > Skill > Opportunity

New York State Testing Program
Grade 3
Mathematics Test

Released Questions

2023

New York State administered the Mathematics Tests in May 2023 and is making approximately 75% of the questions from these tests available for review and use.



New York State Testing Program

Grades 3–8 Mathematics

Released Questions from 2023 Exams

Background

As in past years, SED is releasing large portions of the 2023 NYS Grades 3–8 English Language Arts and Mathematics test materials for review, discussion, and use.

For 2023, included in these released materials are at least 75 percent of the test questions that appeared on the 2023 tests (including all constructed-response questions) that counted toward students' scores. Additionally, SED is also providing a map that details what each released question measures and the correct response to each question. These released materials will help students, families, educators, and the public better understand the tests and the New York State Education Department's expectations for students.

Understanding Math Questions

Multiple-Choice Questions

Multiple-choice questions are designed to assess the New York State P–12 Next Generation Learning Standards for Mathematics. Mathematics multiple-choice questions will be used mainly to assess standard algorithms and conceptual standards. Multiple-choice questions incorporate both the grade-level standards and the “Standards for Mathematical Practices.” Many questions are framed within the context of real-world applications or require students to complete multiple steps. Likewise, many of these questions are linked to more than one standard, drawing on the simultaneous application of multiple skills and concepts.

One-Credit Constructed-Response Questions

One-credit constructed-response questions require students to complete a task and provide only their final answer. These one-credit questions will often require multiple steps, assessing procedural skills, as well as conceptual understanding and application. While students may show how they arrived at their final answer, only the final answer will be scored.

Two-Credit Constructed-Response Questions

Two-credit constructed-response questions require students to complete tasks and show their work. These two-credit response questions will often require multiple steps, the application of multiple mathematics skills, and real-world applications. Many of the short-response questions will cover conceptual and application standards.

Three-Credit Constructed-Response Questions

Three-credit constructed-response questions ask students to show their work in completing two or more tasks or a more extensive problem. These three-credit response questions allow students to show their understanding of mathematical procedures, conceptual understanding, and application. Three-credit response questions may also assess student reasoning and the ability to critique the arguments of others. The scoring rubric for all constructed-response questions can be found in the grade-level Educator Guides at <http://www.nysed.gov/state-assessment/grades-3-8-ela-and-math-test-manuals>.

New York State P–12 Next Generation Learning Standards Alignment

The alignment(s) to the New York State P–12 Next Generation Learning Standards for Mathematics is/are intended to identify the primary analytic skills necessary to successfully answer each question. However, some questions measure proficiencies described in multiple standards, including a balanced combination of procedure and conceptual understanding. For example, two-credit and three-credit constructed-response questions require students to show an understanding of mathematical procedures, concepts, and applications.

These Released Questions Do Not Comprise a “Mini Test”

To ensure it is possible to develop future tests, some content must remain secure. This document is *not* intended to be representative of the entire test, to show how operational tests look, or to provide information about how teachers should administer the test; rather, its purpose is to provide an overview of how the test reflects the demands of the New York State P–12 Next Generation Learning Standards.

The released questions do not represent the full spectrum of the standards assessed on the State tests, nor do they represent the full spectrum of how the standards should be taught and assessed in the classroom. It should not be assumed that a particular standard will be measured by an identical question in future assessments.

Non: _____



Haitian Creole Edition
Grade 3 2023
Mathematics Test
Session 1
May 2–4, 2023

Pwogram Egzamen
Eta Nouyòk
Egzamen Matematik
Seyans 1

3 YÈM ANE

Sòti 2 Me pou rive
4 Me 2023

RELEASED QUESTIONS

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Seyans 1



KONSÈY POU FÈ EGZAMEN AN

Men kèk sijesyon pou ede ou pi byen konpoze:

- Li chak kesyon avèk atansyon epi reflechi sou chak repons anvan ou fè chwa ou.
- Yo ba w yon règ pou w itilize pandan egzamen an. Sèvi ak règ la nenpòt lè ou panse l ap ede w reponn kesyon an.

1

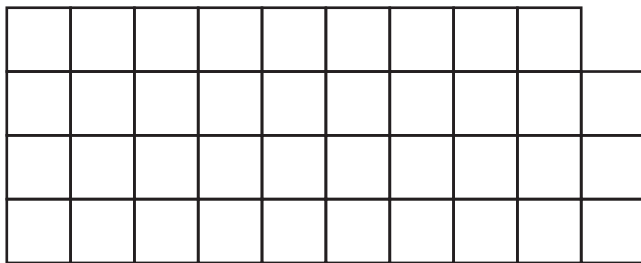
Ki faktè ki rann ekwasyon anba a kòrèk?

$$8 \times \underline{\quad ? \quad} = 72$$

- A 6
- B 7
- C 8
- D 9

2

Figi ki anba a fèt ak kare inite.



LEJANN
<input type="checkbox"/> = 1 kare inite

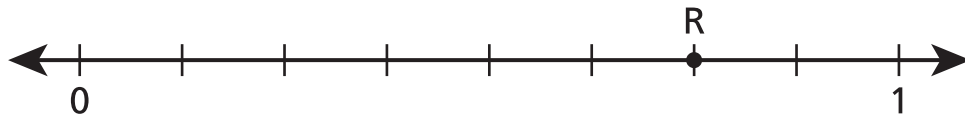
Konbyen inite kare sifas figi a ye?

- A 23
- B 26
- C 32
- D 39

KONTINYE

5

Nou montre pwen R sou dwat nimerik ki anba a.



Ki de (2) fraksyon ki ekivalan ak valè pwen R la reprezante la?

A $\frac{1}{4}$ ak $\frac{2}{8}$

B $\frac{2}{4}$ ak $\frac{6}{8}$

C $\frac{2}{4}$ ak $\frac{4}{8}$

D $\frac{3}{4}$ ak $\frac{6}{8}$

6

Madeline genyen egzakteman 7 pyès lajan nan yon valiz. Chak pyès gen yon mas ki se 5 gram. Ki mas total, an gram, tout pyès lajan ki nan valiz Madeline nan ye?

A 2

B 12

C 35

D 40

KONTINYE

15 Yo te itilize yon règ pou kreye chema nimerik ki anba a.

 ?, 9, ?, 21, 27

Ki de (2) nonb ki manke nan chema a?

A 3 ak 12

B 3 ak 15

C 6 ak 12

D 6 ak 15

16 Ki fraksyon ki ekivalan ak $\frac{4}{4}$?

A $\frac{2}{1}$

B $\frac{2}{2}$

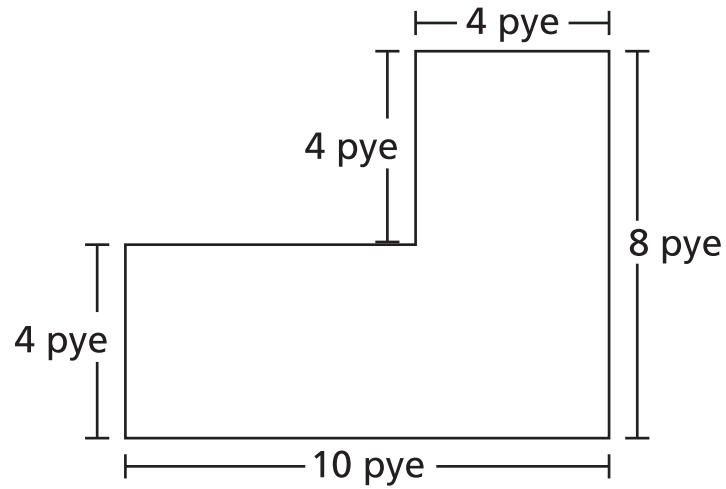
C $\frac{4}{1}$

D $\frac{4}{2}$

KONTINYE

18

Yo te kreye fòm ki anba a lè yo mete de (2) rektang youn bò kote lòt.



Konbyen sifas fòm nan ye an pye kare?

- A 36
- B 40
- C 56
- D 80

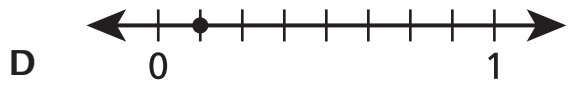
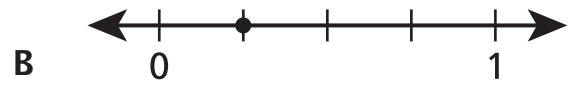
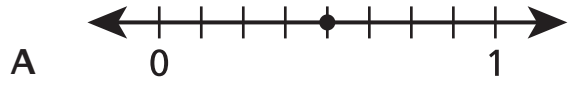
19

Ki ekspresyon ki ekivalan ak $4 \times (3 \times 2)$?

- A $2 + (3 + 4)$
- B $3 \times (4 \times 2)$
- C $2 \times (4 + 3)$
- D $3 + (2 \times 4)$

KONTINYE

20 Ki dwat nimerik ki montre yon pwen ki lokalize nan $\frac{1}{4}$?

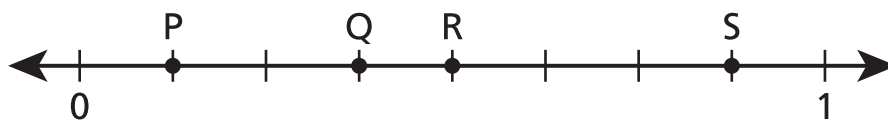


KONTINYE

23 Konbyen kare inite ki nesesè pou jwenn sifas yon rektang ki se 48 kare inite?

- A 6
- B 8
- C 24
- D 48

24 Ki pwen ki sou dwat nimerik ki parèt anba a ki reprezante fraksyon $\frac{4}{8}$?



- A pwen P
- B pwen Q
- C pwen R
- D pwen S

3yèm ane

2023

Egzamen Matematik

Seyans 1

Sòti 2 Me pou rive 4 Me 2023

Grade 3

2023

Mathematics Test

Session 1

May 2–4, 2023

Non: _____



Haitian Creole Edition
Grade 3 2023
Mathematics Test
Session 2
May 2–4, 2023

**Pwogram Egzamen
Eta Nouyòk
Egzamen Matematik
Seyans 2**

3 YÈM ANE

**Sòti 2 Me pou rive
4 Me 2023**

RELEASED QUESTIONS

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Seyans 2



KONSÈY POU FÈ EGZAMEN AN

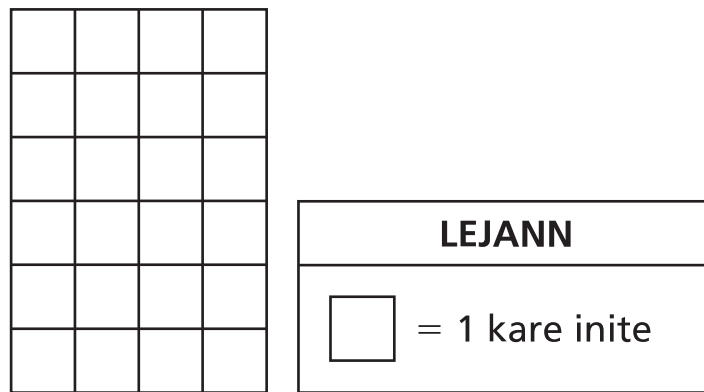
Men kèk sijesyon pou ede ou pi byen konpoze:

- Li chak kesyon avèk atansyon epi reflechi sou chak repons anvan ou chwazi, oswa ekri repons ou an.
- Yo ba w yon règ pou w itilize pandan egzamen an. Sèvi ak règ la nenpòt lè ou panse l ap ede w reponn kesyon an.
- Pa bliye montre kijan w fè jwenn repons lan lè yo mande ou sa.

26 Yon elèv gen 27 ti gato nan yon bwat. Gen 10 ti gato ki glase ak chokola epi 11 ti gato ki glase ak vaniy. Rè s ti gato, s , glase ak frèz. Ki valè s la?

- A 6
- B 8
- C 17
- D 21

27 Ou ka jwenn sifas rektang ki anba a lè ou itilize kare inite yo.



Konbyen kare inite sifas rektang la ye?

- A 10
- B 18
- C 20
- D 24

KONTINYE

28 Mesye Juarez achte 5 pake kaye. Chak pake genyen 6 kaye. Li bay chak nan 3 timoun li yo menm kantite kaye a. Konbyen kaye chak timoun ap jwenn?

- A 8
- B 10
- C 11
- D 14

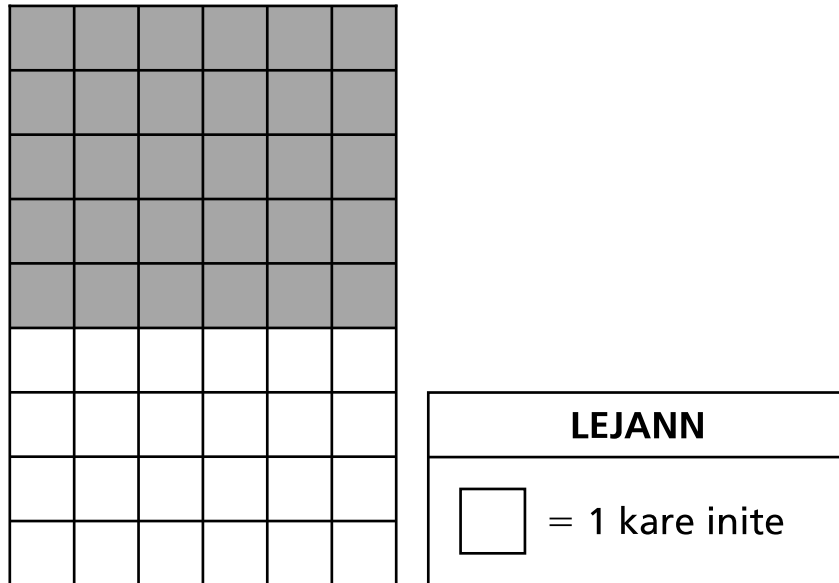
29 Ki fraksyon ki ekivalan ak $\frac{2}{8}$?

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

KONTINYE

30

Yo mete ansanm yon tablo ki gen lonb ak yon tablo ki pa gen lonb pou kreye imaj nou montre anba a.



Ki ekspresyon ki kapab itilize pou jwenn konbyen kare inite sifas total imaj la ye an antye?

- A** $(5 \times 6) + (4 \times 6)$
- B** $6 + 5 + 4$
- C** $(5 \times 6) \times (4 \times 6)$
- D** $6 \times 5 \times 4$

KONTINYE

31

Kesyon sa a vo 1 kredi.

Konbyen gwoup 9 ki gen nan 72 ?

Repons _____

KONTINYE

32

Kesyon sa a vo 1 kredi.

Yo dekoupe yon sèk an 8 pati egal. Ki fraksyon nan sèk la ki reprezante chak pati?

Repons _____ nan sèk la

KONTINYE

33

Kesyon sa a vo 1 kredi.

Yon kare gen longè kote li yo ki se 3 pye. Konbyen sifas kare a ye an pye kare?

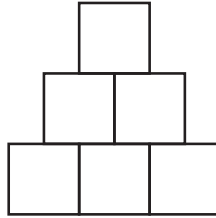
Repons _____ pye kare

KONTINYE

34

Kesyon sa a vo 2 kredi.

Figi ki anba a fèt an pati egal.



Ki fraksyon tout figi a ki pou chak pati?

Eksplike kijan ou fè konnen repons ou an kòrèk.

KONTINYE

35

Kesyon sa a vo 2 kredi.

Yo montre kòmansman yon chema nimerik anba a.

6, 10, 14, 18, . . .

Chema a ap kontinye. Èske 10yèm nonb ki nan chema a se yon nonb pè oubyen yon nonb enpè? Tanpri, asire pou entegre règ yo itilize pou chema nan repons ou an.

Eksplike kijan ou fè konnen repons ou an kòrèk.

KONTINYE

36

Kesyon sa a vo 2 kredi.

John kòmanse li yon liv a 5:20 p.m. Li li l pandan 45 minit, apre sa li jwe yon jwèt videyo pandan 30 minit. A kilè John sispann jwe jwèt videyo a?

Montre kijan ou fè pou jwenn repons lan.

Repons _____ p.m.

KONTINYE

37

Kesyon sa a vo 2 kredi.

Yo site kat (4) chif anba a.

2	8	5	3
---	---	---	---

Itilize chak chif ki parèt pou ekri yon nonb kat (4) chif avèk chif 3 nan pozisyon santèn. Apresa itilize sa ou konnen sou valè pozisyon an pou idantifye valè pozisyon chak chif nan nonb ou te ekri a.

Eksplike kijan ou fè konnen repons ou an kòrèk.

KONTINYE

38

Kesyon sa a vo 3 kredi.

Sandra te manje $\frac{2}{6}$ nan yon pizza epi George te manje $\frac{3}{6}$ nan menm pizza. Sandra

di li te manje plis pizza pase George. George di li te manje plis pizza pase Sandra.

Kiyès ki gen rezon? Asire ou ajoute yon deklarasyon sou konparezon an ki kòrèk la pandan w ap itilize $>$, $<$, oubyen $=$ epi sa ou konnen sou fraksyon oubyen pati yon antye nan repons ou.

Eksplike repons ou an.

3yèm ane

2023

Egzamen Matematik

Seyans 2

Sòti 2 Me pou rive 4 Me 2023

Grade 3

2023

Mathematics Test

Session 2

May 2–4, 2023

THE STATE EDUCATION DEPARTMENT
THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234
2023 Mathematics Tests Map to the Standards
Grade 3 Released Questions

Question	Type	Key	Points	Standard	Cluster	Secondary Standard(s)	Multiple Choice Questions	Constructed Response Questions	
							Percentage of Students Who Answered Correctly (P-Value)	Average Points Earned	P-Value (Average Points Earned ÷ Total Possible Points)
Session 1									
1	Multiple Choice	D	1	NGLS.Math.Content.NY-3.OA.4	Operations and Algebraic Thinking		0.8066		
2	Multiple Choice	D	1	NGLS.Math.Content.NY-3.MD.6	Measurement and Data		0.8740		
5	Multiple Choice	D	1	NGLS.Math.Content.NY-3.NF.3a	Number and Operations - Fractions	NGLS.Math.Content.NY-3.NF.2b	0.5314		
6	Multiple Choice	C	1	NGLS.Math.Content.NY-3.MD.2b	Measurement and Data		0.8468		
15	Multiple Choice	B	1	NGLS.Math.Content.NY-3.OA.9	Operations and Algebraic Thinking		0.3231		
16	Multiple Choice	B	1	NGLS.Math.Content.NY-3.NF.3c	Number and Operations - Fractions	NGLS.Math.Content.NY-3.NF.3b	0.7220		
18	Multiple Choice	C	1	NGLS.Math.Content.NY-3.MD.7d	Measurement and Data		0.4523		
19	Multiple Choice	B	1	NGLS.Math.Content.NY-3.OA.5	Operations and Algebraic Thinking		0.7618		
20	Multiple Choice	B	1	NGLS.Math.Content.NY-3.NF.2a	Number and Operations - Fractions		0.7512		
23	Multiple Choice	D	1	NGLS.Math.Content.NY-3.MD.5a	Measurement and Data	NGLS.Math.Content.NY-3.MD.5b	0.4650		
24	Multiple Choice	C	1	NGLS.Math.Content.NY-3.NF.2b	Number and Operations - Fractions		0.7734		
Session 2									
26	Multiple Choice	A	1	NGLS.Math.Content.NY-3.OA.8a	Operations and Algebraic Thinking		0.5181		
27	Multiple Choice	D	1	NGLS.Math.Content.NY-3.MD.5b	Measurement and Data	NGLS.Math.Content.NY-3.MD.7a	0.9002		
28	Multiple Choice	B	1	NGLS.Math.Content.NY-3.OA.3	Operations and Algebraic Thinking		0.5851		
29	Multiple Choice	A	1	NGLS.Math.Content.NY-3.NF.3b	Number and Operations - Fractions		0.4934		
30	Multiple Choice	A	1	NGLS.Math.Content.NY-3.MD.7c	Measurement and Data		0.6866		
31	Constructed Response		1	NGLS.Math.Content.NY-3.OA.2	Operations and Algebraic Thinking			0.6409	0.6409
32	Constructed Response		1	NGLS.Math.Content.NY-3.G.2	Geometry			0.6069	0.6069
33	Constructed Response		1	NGLS.Math.Content.NY-3.MD.7b	Measurement and Data	NGLS.Math.Content.NY-3.MD.5a		0.2747	0.2747
34	Constructed Response		2	NGLS.Math.Content.NY-3.G.2	Geometry			0.4023	0.2012
35	Constructed Response		2	NGLS.Math.Content.NY-3.OA.9	Operations and Algebraic Thinking			0.3749	0.1875
36	Constructed Response		2	NGLS.Math.Content.NY-3.MD.1	Measurement and Data			0.5320	0.2660
37	Constructed Response		2	NGLS.Math.Content.NY-3.NBT.4a	Number and Operations in Base Ten			0.3255	0.1628
38	Constructed Response		3	NGLS.Math.Content.NY-3.NF.3d	Number and Operations - Fractions			0.3579	0.1193

*This item map is intended to identify the primary analytic skills necessary to successfully answer each question. However, some questions measure proficiencies described in multiple standards, including a balanced combination of procedural and conceptual understanding.