



Our Students. Their Moment.

**New York State Testing Program
Grade 5
Mathematics Test**

Released Questions

June 2019

New York State administered the Mathematics Tests in May 2019 and is now 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 2019 Exams

Background

In 2013, New York State began administering tests designed to assess student performance in accordance with the instructional shifts and rigor demanded by the new New York State P-12 Learning Standards in Mathematics. To help in this transition to new assessments, the New York State Education Department (SED) has been releasing an increasing number of test questions from the tests that were administered to students across the State in the spring. This year, SED is again releasing large portions of the 2019 NYS Grades 3-8 English Language Arts and Mathematics test materials for review, discussion, and use.

For 2019, included in these released materials are at least 75 percent of the test questions that appeared on the 2019 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 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.

Short-Response Questions

Short-response questions require students to complete tasks and show their work. Like multiple-choice questions, short-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 of the standards.

Extended-Response Questions

Extended-response questions ask students to show their work in completing two or more tasks or a more extensive problem. Extended-response questions allow students to show their understanding of mathematical procedures, conceptual understanding, and application. Extended-response questions may also assess student reasoning and the ability to critique the arguments of others.

The scoring rubric for short and extended constructed-response questions can be found in the grade-level Educator Guides at <https://www.engageny.org/resource/test-guides-english-language-arts-andmathematics>.

New York State P-12 Learning Standards Alignment

The alignment(s) to the New York State P-12 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-point and three-point 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 future valid and reliable tests, some content must remain secure for possible use on future exams. As such, 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 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. Specific criteria for writing test questions, as well as additional assessment information, are available at <http://www.engageny.org/common-core-assessments>.

Non: _____



Haitian Creole Edition
Grade 5 2019
Mathematics Test
Session 1
May 1–3, 2019

Pwogram Egzamen Eta Nouyòk Egzamen Matematik Seyans 1

Ane **5**

1–3 Me 2019

RELEASED QUESTIONS

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Ane 5 Fèy Referans Matematik

KONVÈSYON

1 mil = 5.280 pye
1 mil = 1.760 yad

1 liv = 16 ons
1 tòn = 2.000 liv

1 tas = 8 ons likid
1 pent = 2 tas
1 ka = 2 pent
1 galon = 4 ka
1 lit = 1.000 santimèt kib

FÒMIL

Prism Rektangilè Dwa

$V = Bh$ oswa $V = lwh$

Seyans 1



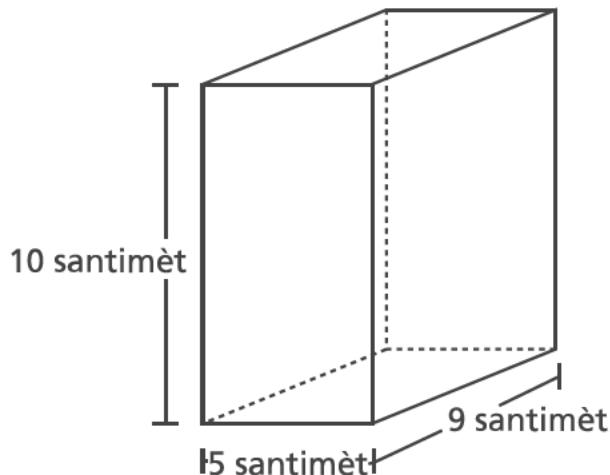
KONSEY POU PRAN EGZAMEN AN

Men kèk sijesyon pou ede ou bay pi bon rannman:

- Li chak kesyon avèk atansyon epi reflechi sou chak repons anvan ou fè chwa ou.
- Yo ba w enstriman jeometri (yon règ, ak yon rapòtè) epi yon papye ki gen fòmil yo ladan pou w sèvi pandan egzamen an. Se ou k pou konnen kilè pou sèvi ak chak gress nan enstriman jeometri yo avèk papye fòmil la tou. Ou ka sèvi ak enstriman jeometri yo avèk papye fòmil la tou nenpòt ki lè w panse l ap ede w reponn yon kesyon.

1

Gen yon bwat kado ki gen fòm prism rektangilè dwat, jan ou wè nan foto ki anba la a.



Konbyen santimèt kib volim bwat kado a ye?

- A 24
- B 45
- C 225
- D 450

2

Konbyen sòm $\frac{2}{10} + \frac{6}{100}$ ye?

- A $\frac{8}{10}$
- B $\frac{8}{100}$
- C $\frac{26}{10}$
- D $\frac{26}{100}$

KONTINYE

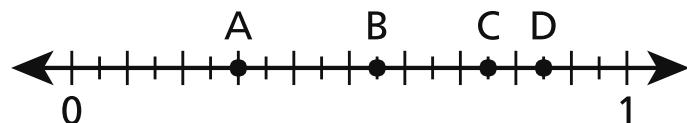
3

Samdi, Mark te vann $2\frac{7}{8}$ galon limonad. Nan menm jou a, Regan te vann $\frac{2}{3}$ fwa kantite limonad Mark te vann. Konbyen galon limonad Regan te vann?

- A $1\frac{5}{16}$
- B $1\frac{11}{12}$
- C $2\frac{7}{12}$
- D $4\frac{5}{16}$

4

Ki pwen sou dwat nimerik ki anba la a ki reprezante yon valè 0,75?

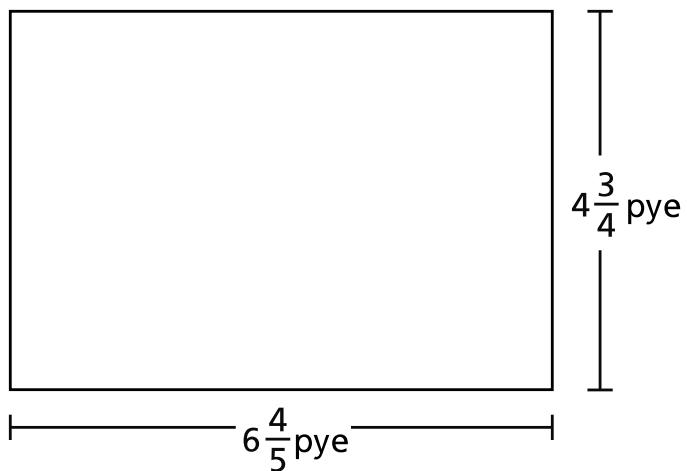


- A pwen A
- B pwen B
- C pwen C
- D pwen D

KONTINYE

13

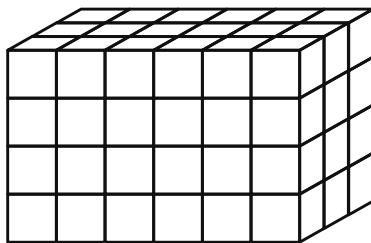
Konbyen pye kare sifas rektang ki anba la a ye?



- A** $11\frac{11}{20}$
- B** $24\frac{12}{20}$
- C** $27\frac{4}{20}$
- D** $32\frac{6}{20}$

18

Ki ekspresyon nou **pa kapab** itilize pou detèmine volim prism rektangilè ki nan foto anba a?



- A** 12×6
- B** 18×4
- C** $6 \times 3 \times 4$
- D** $6 \times 4 \times 6$

19

Kisa ou jwenn lè ou awondi 15,74 nan nonb antye ki pi pre a?

- A** 10
- B** 15
- C** 16
- D** 20

KONTINYE

20 Jack mete $\frac{1}{3}$ liv gress pou zwazo nan manjwa pou zwazo a chak fwa li ranpli li. Konbyen fwa Jack ka ranpli manjwa li a ak 4 liv gress pou zwazo?

A $1\frac{1}{3}$

B $3\frac{2}{3}$

C 11

D 12

21 Carlos kreye 1 liv melanj goute ak nwa, rezen, ak sereyal. Lis ki anba la a montre konbyen liv nwa ak rezen li itilize.

• $\frac{1}{3}$ liv nwa

• $\frac{2}{5}$ liv rezen

Konbyen liv sereyal Carlos itilize?

A $\frac{3}{8}$

B $\frac{5}{8}$

C $\frac{4}{15}$

D $\frac{11}{15}$

KONTINYE

26 Ki valè ekspresyon $\frac{1}{7} \div 5$?

- A $\frac{1}{12}$
- B $\frac{1}{35}$
- C $\frac{5}{7}$
- D $\frac{6}{7}$

27 Cole gen yon jaden rektangilè ki gen yon sifas 16,02 mèt kare. Longè jaden an se 4,5 mèt. Konbyen mèt lajè jaden an ye?

- A 3,56
- B 11,52
- C 16,12
- D 20,52

28 Yon lekòl kolekte yon total \$1.648 pou achte novo liv. Yo pral pataje lajan yo kolekte a egalego pami 8 salklas diferan. Konbyen kantite total lajan chak salklas pral resevwa?

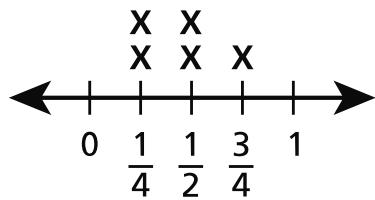
- A \$206
- B \$207
- C \$260
- D \$270

KONTINYE

29

Dyagram lineyè sa a montre kantite sereyal Shyanne te manje nan 5 jou.

SEREYAL YO TE MANJE



Kantite (tas)

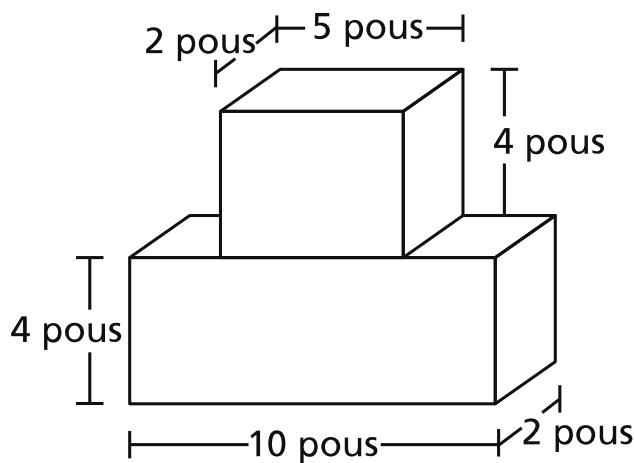
Konbyen tas sereyal otal Shyanne te manje nan 5 jou?

- A** $1\frac{1}{2}$
- B** $1\frac{3}{4}$
- C** $1\frac{4}{6}$
- D** $2\frac{1}{4}$

KONTINYE

30

Lana sèvi ak de blòk yo ki nan dyagram nan pou konstwi yon tou.



TOU LANA A

Konbyen pouss kib volim total tou Lana te konstwi a ye?

- A 27
- B 80
- C 116
- D 120

KANPE LA

**Ane 5
2019
Egzamen Matematik
Seyans 1
1–3 Me 2019**

**Grade 5
2019
Mathematics Test
Session 1
May 1–3, 2019**

Non: _____



*Haitian Creole Edition
Grade 5 2019
Mathematics Test
Session 2
May 1–3, 2019*

Pwogram Egzamen Eta Nouyòk Egzamen Matematik Seyans 2

Ane **5**

1–3 Me 2019

RELEASED QUESTIONS

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Ane 5 Fèy Referans Matematik

KONVÈSYON

1 mil = 5.280 pye	1 liv = 16 ons	1 tas = 8 ons likid
1 mil = 1.760 yad	1 tòn = 2.000 liv	1 pent = 2 tas
		1 ka = 2 pent
		1 galon = 4 ka
		1 lit = 1.000 santimèt kib

FÒMIL

Prism Rektangilè Dwa

$$V = Bh \text{ oswa } V = lwh$$

Seyans 2



KONSEY POU PRAN EGZAMEN AN

Men kèk sijesyon pou ede ou bay pi bon rannman:

- Li chak kesyon avèk atansyon epi reflechi sou chak repons anvan w fè chwa ou oswa ekri repons ou.
- Yo ba w enstriman jewometri (yon règ, ak yon rapòtè) epi yon papye ki gen fòmil yo ladan pou w sèvi pandan egzamen an. Se ou k pou konnen kilè pou sèvi ak chak gress nan enstriman jeometri yo avèk papye fòmil la tou. Ou ka sèvi ak enstriman jeometri yo avèk papye fòmil la tou nenpòt ki lè w panse l ap ede w reponn yon kesyon.
- Pa blyie montre kijan w fè jwenn repons lan lè yo mande ou sa.

31 Ki deklarasyon konsènan rektang ak lozanj yo ki toujou vre?

- A Toude figi yo se kare.
- B Toude figi yo se kwadrilateral.
- C Toude figi yo gen kat ang dwa.
- D Toude figi yo gen kat kote kongriyan.

32 Ki valè ekspresyon $\frac{2}{5} + \frac{3}{7}$?

- A $\frac{5}{35}$
- B $\frac{6}{35}$
- C $\frac{5}{12}$
- D $\frac{29}{35}$

33 Ki mezi ki ekivalan a 4.000 santimèt?

- A 4 mèt
- B 40 mèt
- C 400 mèt
- D 40.000 mèt

KONTINYE

34

Zaire ap fè ba granola. Pou yon lo ba, resèt la bezwen $1\frac{2}{3}$ tas avwàn, ak $\frac{1}{2}$ tas rezen sèch.

Konbyen tas kantite konbine avwàn ak rezen sèch li itilize nan yon lo ba granola?

- A $1\frac{1}{5}$
- B $1\frac{3}{5}$
- C $2\frac{1}{3}$
- D $2\frac{1}{6}$

35

Nan yon klas lasyans, Paula kreye yon melanj kote li ajoute 2,05 mililit dlo oksijene ak 6,15 mililit dlo ansanm. Li vide tout melanj la egalego nan 5 vesò vid. Konbyen mililit melanj la li te vide nan chak vesò?

- A 0,61
- B 1,64
- C 3,2
- D 13,4

36

Kijan w eksprime 482,073 an mo?

- A kat katrevende ak swasantrèz milyèm
- B kat san katrevende mil swasantrèz
- C kat san katrevende ak swasantrèz santyèm
- D kat san katrevende ak swasantrèz milyèm

KONTINYE

37 Marco fè bonbon pou klas li. Li itilize $\frac{3}{4}$ tas bè pou chak lo bonbon epi li fè $2\frac{1}{2}$ lo. Ki ekwasyon ou ka itilize pou detèmine kantite tas bè Marco itilize pou fè bonbon yo?

A $\frac{5}{2} \times \frac{3}{4} = 1\frac{7}{8}$

B $\frac{3}{2} \times \frac{3}{4} = 1\frac{1}{8}$

C $\frac{5}{2} \times \frac{4}{3} = 3\frac{1}{3}$

D $\frac{3}{2} \times \frac{4}{3} = 2$

38 Ki ekspresyon ki pa ekivalan ak $\frac{2}{3} \times 4$?

A $(2 \times 4) \div 3$

B $\frac{1}{3} \times (2 \times 4)$

C $\left(4 \times \frac{1}{3}\right) \times 2$

D $\left(2 \times \frac{1}{3}\right) + \left(4 \times \frac{1}{3}\right)$

KONTINYE

39

Martin ap sèvi ak kib inite pou konstwi yon tou ki gen fòm yon prism rektangilè dwa. W ap jwenn deskripsyon tou a anba la a.

- kouch anba a fèt ak 16 kib inite
- kouch anba a gen fòm yon prism kare
- li te ajoute 9 lòt kouch kib inite egal sou tèt kouch anba a

Konbyen inite kib volim total tou a te ye lè li te fini?

Montre kijan ou fè pou jwenn repons la.

Repons _____ inite kib

KONTINYE

40

Joel gen yon objektif pou pratike klarinèt li pandan $4\frac{1}{2}$ èdtan pa semèn. Lis ki anba la a montre kantite èdtan Joel te deja pratike semèn sa a.

- Lendi: $1\frac{1}{2}$ èdtan
- Mèkredi: $1\frac{1}{4}$ èdtan
- Jedi: 1 èdtan

Konbyen èdtan an plis Joel bezwen pratike semèn sa a pou li reyalize objektif li?

Montre kijan ou fè pou jwenn repons la.

Repons _____ èdtan

KONTINYE

41

Kijan valè chif 2 nan nonb 32.000 an la konpare ak valè chif 2 nan nonb 26.000 lan?

Eksplike repons ou.

KONTINYE

42

Gen 5 tas avwàn nan yon veso. Stella manje $\frac{1}{3}$ tas avwàn chak jou pou manje maten. Nan konbyen jou Stella ap fini ak tout avwàn ki nan veso a?

Montre kijan ou fè pou jwenn repons la.

Repons _____ jou

KONTINYE

43

Olga ap dekore lenn ak riban. Li gen 12 yad riban. Li itilize 22 pye riban pou dekore lenn yo. Apre li fin dekore lenn yo, konbyen pye riban ki rete?

Montre kijan ou fè pou jwenn repons la.

Repons _____ pye

KONTINYE

44

Nan ekspresyon $5 \times \frac{y}{7}$, valè y t ap fè yon pwodwi plis pase 5 ?

Eksplike repons ou.

KONTINYE

45

Diane gen pat farin pou fè pitza. Li separe pat farin nan an twa pòsyon ki endike anba la a.

- Pòsyon A se 8,25 ons.
- Pòsyon B se de fwa pòsyon A.
- Pòsyon C se de fwa pòsyon B.

Konbyen ons pwa pòsyon B ye epi konbyen ons pòsyon C ye?

Montre kijan ou fè pou jwenn repons la.

Repons Pòsyon B _____ ons

Pòsyon C _____ ons

KANPE LA

**Ane 5
2019
Egzamen Matematik
Seyans 2
1–3 Me 2019**

**Grade 5
2019
Mathematics Test
Session 2
May 1–3, 2019**

**THE STATE EDUCATION DEPARTMENT
THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234
2019 Mathematics Tests Map to the Standards
Grade 5 Released Questions on EngageNY**

Question	Type	Key	Points	Standard	Cluster	Subscore
Session 1						
1	Multiple Choice	D	1	CCSS.Math.Content.5.MD.C.5b	Measurement and Data	Measurement and Data
2	Multiple Choice	D	1	CCSS.Math.Content.4.NF.C.5	Number and Operations - Fractions	Number and Operations - Fractions
3	Multiple Choice	B	1	CCSS.Math.Content.5.NF.B.6	Number and Operations - Fractions	Number and Operations - Fractions
4	Multiple Choice	C	1	CCSS.Math.Content.4.NF.C.6	Number and Operations in Base Ten	Number and Operations in Base Ten
13	Multiple Choice	D	1	CCSS.Math.Content.5.NF.B.4b	Number and Operations - Fractions	Number and Operations - Fractions
18	Multiple Choice	D	1	CCSS.Math.Content.5.MD.C.5a	Measurement and Data	Measurement and Data
19	Multiple Choice	C	1	CCSS.Math.Content.5.NBT.A.4	Number and Operations in Base Ten	Number and Operations in Base Ten
20	Multiple Choice	D	1	CCSS.Math.Content.5.NF.B.7c	Number and Operations - Fractions	Number and Operations - Fractions
21	Multiple Choice	C	1	CCSS.Math.Content.5.NF.A.2	Number and Operations - Fractions	Number and Operations - Fractions
26	Multiple Choice	B	1	CCSS.Math.Content.5.NF.B.7a	Number and Operations - Fractions	Number and Operations - Fractions
27	Multiple Choice	A	1	CCSS.Math.Content.5.NBT.B.7	Number and Operations in Base Ten	Number and Operations in Base Ten
28	Multiple Choice	A	1	CCSS.Math.Content.5.NBT.B.6	Number and Operations in Base Ten	Number and Operations in Base Ten
29	Multiple Choice	D	1	CCSS.Math.Content.5.MD.B.2	Measurement and Data	Measurement and Data
30	Multiple Choice	D	1	CCSS.Math.Content.5.MD.C.5c	Measurement and Data	Measurement and Data
Session 2						
31	Multiple Choice	B	1	CCSS.Math.Content.5.G.B.3	Geometry	
32	Multiple Choice	D	1	CCSS.Math.Content.5.NF.A.1	Number and Operations - Fractions	Number and Operations - Fractions
33	Multiple Choice	B	1	CCSS.Math.Content.4.MD.A.1	Measurement and Data	Measurement and Data
34	Multiple Choice	D	1	CCSS.Math.Content.5.NF.A.1	Number and Operations - Fractions	Number and Operations - Fractions
35	Multiple Choice	B	1	CCSS.Math.Content.5.NBT.B.7	Number and Operations in Base Ten	Number and Operations in Base Ten
36	Multiple Choice	D	1	CCSS.Math.Content.5.NBT.A.3a	Number and Operations in Base Ten	Number and Operations in Base Ten
37	Multiple Choice	A	1	CCSS.Math.Content.5.NF.B.6	Number and Operations - Fractions	Number and Operations - Fractions
38	Multiple Choice	D	1	CCSS.Math.Content.5.NF.B.4a	Number and Operations - Fractions	Number and Operations - Fractions
39	Constructed Response		2	CCSS.Math.Content.5.MD.C.5c	Measurement and Data	Measurement and Data

40	Constructed Response		2	CCSS.Math.Content.5.NF.A.2	Number and Operations - Fractions	Number and Operations - Fractions
41	Constructed Response		2	CCSS.Math.Content.5.NBT.A.1	Number and Operations in Base Ten	Number and Operations in Base Ten
42	Constructed Response		2	CCSS.Math.Content.5.NF.B.7c	Number and Operations - Fractions	Number and Operations - Fractions
43	Constructed Response		2	CCSS.Math.Content.5.MD.A.1	Measurement and Data	Measurement and Data
44	Constructed Response		2	CCSS.Math.Content.5.NF.B.5b	Number and Operations - Fractions	Number and Operations - Fractions
45	Constructed Response		3	CCSS.Math.Content.5.NBT.B.7	Number and Operations in Base Ten	Number and Operations in Base Ten

*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.