

New York State Testing Program Mathematics Test

2013 Turnkey Training

Rubrics, Scoring Policies and Practice Score Sheet

2-Point Holistic Rubric

Score Points:

2 Points	A two-point response answers the question correctly. This response
	 demonstrates a thorough understanding of the mathematical concepts but may contain errors that do not detract from the demonstration of understanding indicates that the student has completed the task correctly, using mathematically sound procedures
1 Point	A one-point response is only partially correct.
	This response
	• indicates that the student has demonstrated only a partial understanding of the mathematical concepts and/or procedures in the task
	 correctly addresses some elements of the task
	• may contain an incorrect solution but applies a mathematically appropriate process
	• may contain correct numerical answer(s) but required work is not provided
0 Points	A zero-point response is incorrect, irrelevant, incoherent, or contains a correct response arrived using an obviously incorrect procedure. Although some parts may contain correct mathematical procedures, holistically they are not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.

Condition Code A

Condition Code A is applied whenever a student who is present for a test session leaves an <u>entire</u> open-ended item in that session blank (no response).

Mathematics Scoring Policies

Below are the policies to be followed while scoring the mathematics tests for all grades:

- 1. If a student does the work in other than a designated "Show your work" area, that work should still be scored. (Additional paper is an allowable accommodation for a student with disabilities if indicated on the student's Individualized Education Program or Section 504 Accommodation Plan.)
- 2. If the question requires students to show their work, and the student shows appropriate work and clearly identifies a correct answer but fails to write that answer in the answer blank, the student should still receive full credit.
- 3. If the question requires students to show their work, and the student shows appropriate work and arrives at the correct answer but writes an incorrect answer in the answer blank, the student should not receive full credit.
- 4. In questions that provide ruled lines for students to write an explanation of their work, mathematical work shown elsewhere on the page should be considered and scored.
- 5. If the student provides one legible response (and one response only), teachers should score the response, even if it has been crossed out.
- 6. If the student has written more than one response but has crossed some out, teachers should score only the response that has not been crossed out.
- 7. Trial-and-error responses are not subject to Scoring Policy #6 above, since crossing out is part of the trial-and-error process.
- 8. If a response shows repeated occurrences of the same conceptual error within a question, the student should not be penalized more than once.
- 9. In questions that require students to provide bar graphs,
 - in Grades 3 and 4 only, touching bars are acceptable
 - in Grades 3 and 4 only, space between bars does not need to be uniform
 - in all grades, widths of the bars must be consistent
 - in all grades, bars must be aligned with their labels
 - in all grades, scales must begin at 0, but the 0 does not need to be written
- 10. In questions requiring number sentences, the number sentences must be written horizontally.
- 11. In pictographs, the student is permitted to use a symbol other than the one in the key, provided that the symbol is used consistently in the pictograph; the student does not need to change the symbol in the key. The student may not, however, use multiple symbols within the chart, nor may the student change the value of the symbol in the key.
- 12. If students are not directed to show work, any work shown will not be scored. This applies to items that do not ask for any work and items that ask for work for one part and do not ask for work in another part.

3-Point Holistic Rubric

Score Points:

3 Points	A three-point response answers the question correctly				
5 I UIIIIS	r unce point response answers the question concerty.				
	This response				
	• demonstrates a thorough understanding of the mathematical concepts but may				
	contain errors that do not detract from the demonstration of understanding				
	• indicates that the student has completed the task correctly, using mathematically				
	sound procedures				
2 Points	A two-point response is partially correct.				
	This response				
	• demonstrates partial understanding of the mathematical concepts and/or procedures				
	embodied in the task				
	• addresses most aspects of the task, using mathematically sound procedures				
	• may contain an incorrect solution but provides complete procedures, reasoning,				
	and/or explanations				
	• may reflect some misunderstanding of the underlying mathematical concepts and/or				
	procedures				
1.D.: /					
I Point	A one-point response is incomplete and exhibits many flaws but is not completely incorrect.				
	This response				
	• demonstrates only a limited understanding of the mathematical concepts and/or				
	procedures embodied in the task				
	• may address some elements of the task correctly but reaches an inadequate solution				
	and/or provides reasoning that is faulty or incomplete				
	• exhibits multiple flaws related to misunderstanding of important aspects of the task,				
	misuse of mathematical procedures, or faulty mathematical reasoning				
	• reflects a lack of essential understanding of the underlying mathematical concepts				
	• may contain correct numerical answer(s) but required work is not provided				
0 Points	A zero point response is incorrect irrelevant incoherent or contains a correct response				
0 Fonts	A zero-point response is incorrect, interevant, incoherent, or contains a correct response				
	antived at using an obviously incorrect procedure. Attriough some parts may contain correct				
	inautematical procedures, nonstically they are not sufficient to demonstrate even a limited				
	understanding of the mathematical concepts embodied in the task.				

Mathematics Turnkey Practice Score Sheet

Name: _____

PS 6 SR 1	(0-2)	
PS 6 SR 2	(0-2)	
PS 6 SR 3	(0-2)	
PS 6 SR 4	(0-2)	
PS 6 SR 5	(0-2)	

PS 4 ER 1	(0-3)	
PS 4 ER 2	(0-3)	
PS 4 ER 3	(0-3)	
PS 4 ER 4	(0-3)	
PS 4 ER 5	(0-3)	

PS 8 SR 1	(0-2)	
PS 8 SR 2	(0-2)	
PS 8 SR 3	(0-2)	
PS 8 SR 4	(0-2)	
PS 8 SR 5	(0-2)	

PS 6 ER 1	(0-3)
PS 6 ER 2	(0-3)
PS 6 ER 3	(0-3)
PS 6 ER 4	(0-3)
PS 6 ER 5	(0-3)



New York State Testing Program Mathematics Test

2013 Turnkey Training

Grade 6 Short-response (2-point) Sample Question

Guide Set

Show your work.

Answer _____

Common Core Learning Standard Assessed: 6.EE.2c

Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = \frac{1}{2}$.

Show your work.

$$2 \times 3^{3} + 4 \times 3^{2} - 3 \times 3^{2} - 6 \times 3$$

= 2 \times 27 + 4 \times 9 - 3 \times 9 - 6 \times 3
= 54 + 36 - 27 - 18
= 90 - 27 - 18
= 63 - 18 = 45

Answer 45

Show your work.

1



Guide Paper 1

Paper	RF Number	Score	Notes
g01	N/A	2	Score Point 2
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. Three is correctly substituted into the expression, the order of operations is correctly followed, all calculations and the final answer are correct.



Show your work.

Guide Paper 2

Paper	RF Number	Score	Notes
g02	N/A	2	Score Point 2
			This response answers the question correctly and indicates that the student has completed the task correctly, using mathematically sound procedures. The individual operations are calculated separately; however, they are all done correctly and in the proper order, resulting in the correct answer.

54 + 3690 - 63 + 16 =What is the value of $2x^{2} + 9x^{2} - 3x^{2} - 6x$ when x = 3? 1

Show your work.

45 Answer





Page 8

6×3

Paper	RF Number	Score	Notes
g03	N/A	2	Score Point 2
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. The individual operations are calculated separately; however, they are done correctly and in the proper order, resulting in the correct answer. One calculation shown is incorrect $(4(3 \times 3 =) 9)$, but the following line shows the correct calculation and this inaccurate statement within the work does not detract from the demonstration of a thorough understanding.

\$7 XZ

What is the value of $2x^3 + 4x^2 - 3x^2 - 6x$ when x = 3? Show your work.

Answer

1

 $2 \cdot 27 + 4 \cdot 9 \quad 3 \cdot 3^2 - 6 \cdot 3$ $2 \cdot 27 + 4 \cdot 9^3 \cdot 9 - 6 \cdot 3$ 54+ 4.9 3.9 -6.3 54+36 3.9 - 6.7 54+3627-613 54+36 27-18 -18 90-9 **Guide Paper 4**

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Paper	RF Number	Score	Notes
g04	N/A	1	Score Point 1
			This response is only partially correct. Three is correctly substituted into the expression; the operations on the exponents are performed first, followed by the multiplication operations. The numbers 54 and 36 are correctly added. However, instead of subtracting 27 from 90 or subtracting 18 from -27, 18 is subtracted from 27, resulting in an incorrect answer. The absence of the first subtraction symbol does not detract from the partial understanding of the problem.



Guide Paper 5

Paper	RF Number	Score	Notes
g05	N/A	1	Score Point 1
			This response is only partially correct. Three is correctly substituted into the expression, the exponents are simplified first and then the multiplication operations are completed. However, the multiplication error, $6 \times 3 = 12$, and the subtraction error, $27 \cdot 12 = 16$ and the change of -27 to 27 result in an incorrect answer. The absence of the multiplication symbols does not detract from the demonstrated level of understanding.

Show your work.

1

Answer

 $2x^{3} + 4x^{2} + 3x^{2} - 6x$ 2.3+4-32-3.3-6.3 $2 \cdot 9 + 4 \cdot 6 - 3 \cdot 6 - 6 \cdot 3$ 18 + 24 - 18 - 18 42 - 18 - 1824 - 18

Guide Paper 6

Paper	RF Number	Score	Notes
g06	N/A	1	Score Point 1
			This response is only partially correct and indicates that the student has demonstrated only a partial understanding of the mathematical concepts in the task. Three is correctly substituted into the expression and the order of operations is correct. However, the simplification of the exponential terms is incorrect; the base is multiplied by the exponent. The resultant answer is also incorrect.



Show your work.

Answer



Guide Paper 7

Paper	RF Number	Score	Notes
g07	N/A	0	Score Point 0 This response is incorrect. The order of operations is incorrect; the multiplication operations are completed prior to the exponent calculations.





Guide Paper 8

Paper	RF Number	Score	Notes
g08	N/A	Ο	Score Point 0 This response is incorrect. An incorrect procedure is used for the substitution of 3 into the expression, the exponents are incorrectly simplified, and the answer is incorrect.



New York State Testing Program Mathematics Test

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Grade 6 Short-response (2-point) Sample Question

Practice Set



Show your work.



Practice Set 1



Practice Set 2

What is the value of $2x^3 + 4x^2 - 3x^2 - 6x$ when x = 3? 1 274 Show your work. $2(3)^3 + 4(3)^2 - 3(3)^2$ = 2(27) + 4(9) - 3(9)8907 = 54 + 36 - 27 = 63. Answer <u>63</u>

Practice Set 3

Show your work.

$$2 \times^{3} + 4 \times^{2} - 3 \times^{2}$$

 $6^{3} + 12^{2} - 9^{2}$
 $18 + 24 - 18 = 24$

Practice Set 4





23

Show your work.

3×3×3=27 3×3=9×4-36

2×27=54

Answer 45

'54 736 90 27 63 -18 45

Practice Set 5



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Grade 8 Short-response (2-point) Sample Question

Guide Set

1 David currently has a square garden. He wants to redesign his garden and make it into a rectangle with a length that is 3 feet shorter than twice its width. He decides that the perimeter should be 60 feet.

Determine the dimensions, in feet, of his new garden.

Show your work.

Answer _____

Common Core Learning Standard Assessed: 8.EE.7b

Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

1 David currently has a square garden. He wants to redesign his garden and make it into a rectangle with a length that is 3 feet shorter than twice its width. He decides that the perimeter should be 60 feet.

Determine the dimensions, in feet, of his new garden.

Show your work. w = width

$$2w - 3 = \text{length}$$

$$P = 2 \times (2w - 3) + 2 \times w = 60$$

$$4w - 6 + 2w = 60$$

$$6w - 6 = 60$$

$$6w - 6 + 6 = 60 + 6$$

$$6w = 66$$

$$\frac{6w}{6} = \frac{66}{6}$$

$$w = 11$$

$$2w - 3 = \text{length}$$

 $2 \times 11 - 3 = 22 - 3 = 19$

Answer Width = 11 ft; Length = 19 ft



David currently has a square garden. He wants to redesign his garden and make it into a rectangle with a length that is 3 feet shorter than twice its width. He decides that the perimeter should be 60 feet.



Guide Paper 1
Paper	RF Number	Score	Notes
g01	N/A	2	Score Point 2
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. The lengths of each side are shown in terms of n (n , $2n$ -3) and are correctly used with the given perimeter to solve for n . The answer for both dimensions is correct. Units in the answer are not required since the question directs students to "determine the dimensions, in feet"



Determine the dimensions, in feet, of his new garden.

Show your work.



Guide Paper 2

X=16

Paper	RF Number	Score	Notes
g02	N/A	2	Score Point 2
			This response answers the question correctly and indicates that the student has completed the task correctly, using mathematically sound procedures. The lengths of each side are correctly shown in terms of x and are appropriately used with the given perimeter to solve for x . The answer for both dimensions is correct.



ntly has a squ. with a length that is should be 60 feet. Ine the dimensions, in feet, of his new b your work. UagHBW-3 WagHBW-3 WagHBW-3Length=19 width=11 Determine the dimensions, in feet, of his new garden. Show your work. Answer 19Ff + 11Ff

Paper	RF Number	Score	Notes
g03	N/A	2	Score Point 2
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. The lengths of each side are correctly shown in terms of <i>w</i> and are used correctly with the given perimeter to solve for <i>w</i> .



Determine the dimensions, in feet, of his new garden.



Paper	RF Number	Score	Notes
g04	N/A	1	Score Point 1
			This response is only partially correct and correctly addresses most elements of the task. The length of each side is correctly determined in terms of x and the equation is set up correctly and solved for x . However, the value given for x is not used to calculate the length of the garden, $(2x - 3)$. Therefore, only one dimension – the width – is given in the answer. The absence of units in the answer does not detract from the demonstration of understanding.



Determine the dimensions, in feet, of his new garden.

i١ Show your work. 19 11 +11 11 iet width Il Feet Answei

Paper	RF Number	Score	Notes
g05	N/A	1	Score Point 1
			This response shows only partial understanding and contains correct numerical answers, but the required work is not provided. The correct numerical answers are given and a check of the answers is provided. However, it is not clear from the work provided how the width (11) was initially determined.



Determine the dimensions, in feet, of his new garden.

Show your work.

Answer



Paper	RF Number	Score	Notes
g06	N/A	1	Score Point 1 This response is only partially correct and
			demonstrates only a partial understanding of the mathematical concepts. The rectangle's length and width are incorrectly expressed as x and x -3, respectively. However, these incorrect expressions are then correctly used in the perimeter equation, solving $x = 66/4$. The calculations are incorrectly completed.



Determine the dimensions, in feet, of his new garden.

Show your work.



60 = 2(28.5) + 360= 57+3 60=60 28.5X2=576 Length 3 left over 3:2=1.5width

Paper	RF Number	Score	Notes
g07	N/A	0	Score Point 0 This response is incorrect. The incorrect equation is used for perimeter and the procedure used to
			even a limited understanding of the mathematical concepts.



Determine the dimensions, in feet, of his new garden.

Show your work. 2x-3 2X-3

Answer

Guide Paper 8

Paper	RF Number	Score	Notes
g08	N/A	0	Score Point 0
			This response is incorrect. The correct dimensions are determined in terms of x and the four sides are added. However, this expression (6 x -6) is never equated to the value given for the perimeter and no final values are determined for the dimensions. While this response contains some correct mathematical procedures, there is not enough work completed to demonstrate even a limited understanding of the mathematical concepts embodied in the task.



New York State Testing Program Mathematics Test

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Grade 8 Short-response (2-point) Sample Question

Practice Set

Determine the dimensions, in feet, of his new garden. \smile

Show your work. 1=3-2n

2: Ban

1



2111=60 60

3-20

2

Practice Set 1

Page 1



Determine the dimensions, in feet, of his new garden.

Show your work.

width is wlength is 1 = 2w - 3P = 60

2x (2w-3+w) 2× (3w-3) 6w-6=60 6w = 66W = 11

Answer 11 and 19

Practice Set 2

Page 2



Determine the dimensions, in feet, of his new garden.

Show your work.

Answer w=1/L=22

X=WidthII 2x-3=lengthIA X=1(

Practice Set 3



Determine the dimensions, in feet, of his new garden.

Show your work.

X= width : 2x-3= length 2(21)-3

2x-3+x=60 $3x-3 = 60 \\ +3 + 3 \\ 3x=63 \\ x=21 3 3$

Answer width= 21ft bength = 39ft.



Practice Set 4

Page 4

Width - 11-April

Determine the dimensions, in feet, of his new garden.

Show your work.

1

$$b0 + 2 = 30$$

$$Z \times -3 + Z = 30$$

$$11 \cdot 2 - 3 = 10$$

$$2 \times + 2 = 30 + 3$$

$$3 \times = 33$$

$$Z = 11$$

$$b0 + 1 = 10$$

$$b0 + 1 = 10$$

Answer
$$1ength = 194eet$$

Practice Set 5

Page 5



New York State Testing Program Mathematics Test

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Grade 4 Extended-response (3-point) Sample Question

Guide Set

Write an equation that helps Candy determine the amount of money she must save each month.

Equation_____

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer \$_____

Common Core Learning Standard Assessed: 4.OA.3

Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Write an equation that helps Candy determine the amount of money she must save each month.

Equation (240 - 32) $\div 4 = x$

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

$$(240 - 32) \div 4 = x$$

 $208 \div 4 = 52$

Answer \$_____52.00



Write an equation that helps Candy determine the amount of money she must save each month.

Equation (240 - 32) + 4 = x

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.



Answer \$ 52

Paper	RF Number	Score	Notes
g01	N/A	3	Score Point 3
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. The written equation is correct, the mathematical procedure used to solve the equation is appropriate with all necessary work shown, and the final answer is correct.



Write an equation that helps Candy determine the amount of money she must save each month.

$$\frac{(240-32)}{4} = X (IN DOLLARS)$$
Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer \$ 52

Paper	RF Number	Score	Notes
g02	N/A	3	Score Point 3
			This response answers the question correctly and indicates that the student has completed the task correctly, using mathematically sound procedures. The written equation is correct, the mathematical procedure used to solve the equation is appropriate with all necessary work shown, and the final answer is correct.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation $4_x = 240 - 32$

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.



Paper	RF Number	Score	Notes
g03	N/A	3	Score Point 3
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. The written equation is correct, the mathematical procedure used to solve the equation is appropriate with all necessary work shown, and the final answer is correct.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation (240 - 32)/4

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.



60 - 8 = 52

5Z Answer \$____

Paper	RF Number	Score	Notes
g04	N/A	2	Score Point 2
			This response is partially correct and addresses most aspects of the task, using mathematically sound procedures. An expression rather than an equation is written and it does not include a variable. However, the expression has been simplified correctly and the final answer is correct.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation 208 - 4 = X

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

-<u>32</u> 208

240 208-4=54

Answer \$_____54.00

Secre Doint 2	Paper	RF Number S	Score	Notes
g05N/A2Score Point 2This response demonstrates partial understanding and addresses most aspects of the task, using mathematically sound procedures. The equation is partially correct; it does not account for the 208. The mathematical procedure used to determine the amount of money to be saved each month is mathematically sound; however, the division error results in an incorrect answer.	g05	N/A	2	Score Point 2 This response demonstrates partial understanding and addresses most aspects of the task, using mathematically sound procedures. The equation is partially correct; it does not account for the 208. The mathematical procedure used to determine the amount of money to be saved each month is mathematically sound; however, the division error results in an incorrect answer.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation 240 - 32 - 4 = x

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer \$ 232
Paper	RF Number	Score	Notes
g06	N/A	2	Score Point 2 This response demonstrates partial understanding. The equation is missing the parentheses around 240 - 32. However, the correct order of operations is followed to solve the incorrect equation.

2

Write an equation that helps Candy determine the amount of money she must save each month.

Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

28 + 4= 57 200:4=55

Answer \$ 57.0

Paper	RF Number	Score	Notes
g07	N/A	1	Score Point 1
			This response exhibits many flaws, and demonstrates only a limited understanding of the question. There is no equation given and the expression $(x \div 4)$ does not show any understanding. The procedure used to solve the equation is appropriate; however, there are two division errors – both for the estimate (200 ÷ 4 = \$55) and for the equation identified as "real" (208 ÷ 4 = \$57). The final answer (57.00) is incorrect.



Write an equation that helps Candy determine the amount of money she must save each month. 33 +308 +308

Equation _____

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer \$

Paper	RF Number	Score	Notes
g08	NZA	1	Score Point 1 This response demonstrates only a limited understanding of the mathematical concepts. The equation is not provided and while the answer is correct, not all of the required work is provided.



Write an equation that helps Candy determine the amount of money she must save each month.

\$290÷4=X Equation_

\$Z40 _ 3Z

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

240-4=60

Answer \$ 60 per Month

Paper	RF Number	Score	Notes
g09	N/A	1	Score Point 1
			This response demonstrates only a limited understanding. While some aspects of the task are addressed correctly, faulty reasoning results in an inadequate solution. The equation is incorrect and does not take into account the \$32 already saved. This reflects a lack of essential understanding of the underlying mathematical concept. However, that incorrect equation is solved correctly.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer S

Paper	RF Number	Score	Notes
g10	N/A	0	Score Point 0
			This response is incorrect. The initial equation is not correct and only the very first step of the process is completed. This results in an incorrect answer. Holistically, this is not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.

Answer

Guide Paper 11

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Paper	RF Number	Score	Notes
g11	N/A	0	Score Point O This response is incorrect. The equation given is incorrect and while the final answer is correct, no correct work or mathematically appropriate process is shown that would lead to that answer.



New York State Testing Program Mathematics Test

2013 Turnkey Training

Grade 4 Extended-response (3-point) Sample Question



Write an equation that helps Candy determine the amount of money she must save each month.

100+100+40=240Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your wo she sti 90 one month 90 the next, 20 the third, then 8.



Write an equation that helps Candy determine the amount of money she must save each month.

Equation $4_{x} = 240 - 32$

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work. $\$ 2.40^{\circ}$	41208
-32	201
	8

Answer \$ 52.00



Write an equation that helps Candy determine the amount of money she must save each month.

Equation 240732-208-44 <u>707</u>

Solve the equation to find the amount of money she must save each month to meet her

goal of buying a bicycle. Show your work.

Answer \$___

Practice Set 3

Page 3



Write an equation that helps Candy determine the amount of money she must save each month.

 $p_{240}-s_{32}=p_{08}+k=x_{1}$ Equation

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.



\$5) Answer S



Write an equation that helps Candy determine the amount of money she must save each month.

Equation <u>240-32</u> = $\times 4$

Solve the equation to find the amount of money she must save each month to meet her goal of buying a bicycle.

Show your work.



20 Answer S



New York State Testing Program Mathematics Test

2013 Turnkey Training

Grade 6 Extended-response (3-point) Sample Question

Guide Set

Draw a net of the box and find its surface area in square centimeters.

Show your work.

Answer _____

Common Core Learning Standard Assessed: 6.G.4

Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.

Draw a net of the box and find its surface area in square centimeters.

Show your work.





Draw a net of the box and find its surface area in square centimeters.



Paper	RF Number	Score	Notes
g01	N/A	3	Score Point 3
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. A complete net is drawn and accurately labeled, and all calculations for each of the rectangles are shown. The final answer, the sum of the area of all six rectangles, is correct.



Draw a net of the box and find its surface area in square centimeters.

Show your work. 15 × 5.3 39 65 68.9 7, 30m Flow 37.63 5,3cm 7.1cm 92.3 5.3 cm 68.9 92.3 × 2 37.8 × 2 184.6 68.9 7,1 × 5,3 37,63 ×_____ 7526

397.66 cm2 Answer:

Paper	RF Number	Score	Notes
g02	N/A	3	Score Point 3
			This response answers the question correctly and indicates that the student has completed the task correctly, using mathematically sound procedures. A complete net is drawn and accurately labeled. The calculations for each of the three sizes of rectangles are shown, multiplied by two, and then added. The final answer is correct.



Draw a net of the box and find its surface area in square centimeters.



Surrace area = 397.66 cm 3

- ·

Answer: 397, 66 cm 2

Paper	RF Number	Score	Notes
g03	N/A	3	Score Point 3
			This response answers the question correctly and demonstrates a thorough understanding of the mathematical concepts. A complete net is drawn. The calculations for each of the three sizes of rectangles are shown, multiplied by two, and then added. The final answer is correct. Labeling the dimensions of the net is not required for demonstration of a thorough understanding of the problem. The run-on equations and the cm ³ label do not detract from the demonstration of a thorough understanding of the net stable.



Draw a net of the box and find its surface area in square centimeters.



Paper	RF Number	Score	Notes
g04	N/A	2	Score Point 2
			This response is partially correct and addresses most aspects of the task, using mathematically sound procedures. A complete net is drawn and accurately labeled, and the correct procedure for the area calculations for each rectangle is used. However, a multiplication error is made while calculating one of the areas $(13 \times 2 \times 5.3 = 157.8)$ and an addition error is made when determining the total area (157.8 + 184.6 + 75.26 = 387.66). The lines that appear to be extra flaps on the net are indicators of the lengths of the sides.



Draw a net of the box and find its surface area in square centimeters.



184.6

68.9 328,76

75.26

2x(13x7.1) + 2x(7.1x5.3)+(53xB) 2x 92,3 + 2x 37.63 + 68.9 184.6 + 75.26 + 68.9

Answer:_____32 8,76

Paper	RF Number	Score	Notes
g05	N/A	2	Score Point 2
			This response demonstrates partial understanding of the mathematical procedures embodied in the task. The net, missing the rectangle that represents one side (5.3 by 7.1) of the box, is only partially correct. The surface area calculated is for an open, rather than a closed, box; the area representing the top of the box is not included.



Draw a net of the box and find its surface area in square centimeters.

Show your work.





Paper	RF Number	Score	Notes
g06	N/A	2	Score Point 2
			This response is partially correct and addresses most aspects of the task, using mathematically sound procedures. A complete net is drawn and accurately labeled, and the correct procedure for the total area calculation is shown in the work. However, minor calculation errors result in an incorrect answer.





Draw a net of the box and find its surface area in square centimeters.



Answer: 198.83 units^2 $13 \times 5.3 = 68.9 \qquad 68.90$ $7.1 \times 5.3 = 37.63 \qquad 37.63$ $7.1 \times 5.3 = 92.3 \qquad 492.30$ $7.1 \times 13 = 92.3 \qquad 1000$

Paper	RF Number	Score	Notes
g07	N/A	1	Score Point 1
			This response is incomplete and exhibits many flaws but is not completely incorrect; it addresses some elements of the task correctly but reaches an inadequate solution and provides reasoning that is incomplete. No net is shown. The area calculations for each size rectangle are shown and are correctly added together. However, the determined value is not multiplied by 2 to determine the total surface area.



Draw a net of the box and find its surface area in square centimeters.

Show your work.








Paper	RF Number	Score	Notes
g08	NZA	1	Score Point 1
			This response exhibits many flaws but is not completely incorrect and demonstrates only a limited understanding of the mathematical procedures embodied in the task. No net is shown. While the work shows the correct procedures for the calculation of the total surface area, multiplication errors for all three sizes of rectangles result in an incorrect answer.



Draw a net of the box and find its surface area in square centimeters.

Show your work.



74.9² cm Answer:

Guide Paper 9

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Paper	RF Number	Score	Notes
g09	N/A	1	Score Point 1
			This response exhibits many flaws but is not completely incorrect and reflects a lack of essential understanding of the underlying mathematical concepts. An appropriate net is shown. However, an inappropriate mathematical process is used to determine the surface area and the answer is incorrect.

2

Draw a net of the box and find its surface area in square centimeters.

Show your work.



Guide Paper 10

Paper	RF Number	Score	Notes
g10	N/A	0	Score Point 0
			This response is incorrect. A net is shown; however, the size of all 6 rectangles is approximately the same. This net is not an appropriate representation of the original three-dimensional figure. No other work is shown and the answer given is incorrect.



Draw a net of the box and find its surface area in square centimeters.

Show your work.

13×7.1×5.3=489.19

189.19 Answer

Guide Paper 11

Paper	RF Number	Score	Notes
g11	N/A	0	Score Point 0
			volume is calculated, rather than the surface area.



New York State Testing Program Mathematics Test

2013 Turnkey Training

Grade 6 Extended-response (3-point) Sample Question



Draw a net of the box and find its surface area in square centimeters.



Answer: 397.66 cm2



Draw a net of the box and find its surface area in square centimeters.

Show your work.





Draw a net of the box and find its surface area in square centimeters,....

Show your work.

ЭA SA=



20 70









Draw a net of the box and find its surface area in square centimeters.

Show your work.

