

Practice Items Grade 8 Mathematics

Examiner's Copy and Student Materials

Virginia Department of Education

Copyright © 2022 by the Commonwealth of Virginia, Virginia Department of Education, P.O. Box 2120, Richmond, Virginia 23218-2120. All rights reserved. Except as permitted by law, this material may not be reproduced or used in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage or retrieval system, without written permission from the copyright owner. Send all written requests to the Virginia Department of Education at the above address or by email to: Student Assessment@doe.virginia.gov.

Printed in the United States of America.

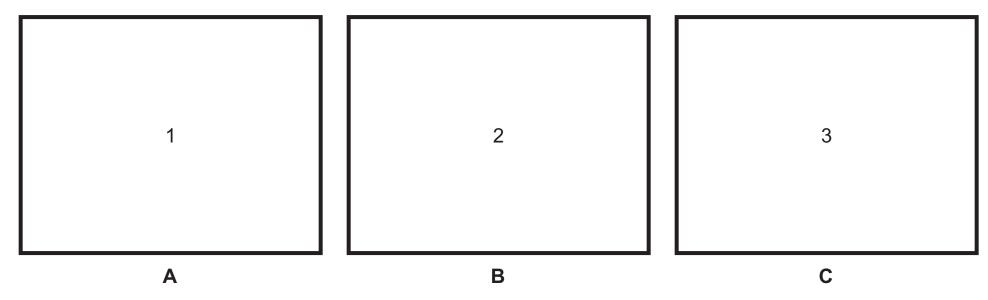
Item 1	Option:				Student
Here is an equation with the variable	x. (Point	<i>A</i>	В	С	Response
to student materials.) This says 7x eq Seven times what number equals 143 or 3	•	1	2	3	
Item 2	Option:	Α	В	С	Student Response
Here are three line graphs. (Point to materials.) Slope is how steep a line find positive slope by counting how n you go up, and then to the right from to find the next point. Which line has	is. You nany units one point a slope	5 4 3 2 1 1 0 0 1 2 3 4 5 5 x	5 4 3 3 0 0 1 2 3 4 5 x	5 4 4 3 4 5 x	Response
of one up, one to the right? A, B, or (
Item 3 Here is an equation with the variable x to student materials.) This says x plus equals 4. What number plus 1 equals 4 or 3	Option:	Α	В	С	Student Response
	s 1 `	1	2	3	
Item 4	Option:				Student
Here is a 6 foot by 3 foot rectangle a	nd the	A	В	С	Response
formula for area. Area equals the lengthe width. (Point to student materials.) the total area of this rectangle? 9 squ 18 square feet, or 32 square feet	.) What is	9 ft²	18 ft²	32 ft²	
Item 5	Option:	_	_		Student
Here are three lines. (Point to studen		A	В	С	Response
materials.) When slope is positive, the goes up to the right. Which line has poslope? A, B, or C		А	В	С	

Student Item 6 Option: В CΑ Response Here is a word problem, the subtraction problem \$10 minus \$6, and three amounts of money. (Point to student materials.) Nora had \$16.00 \$6.00 \$4.00 ten dollars. Her lunch cost six dollars. How much money does Nora have left? 16 dollars. 6 dollars, or 4 dollars Item 7 Student Option: Α В C Response Here is a clock and three times. (Point to student materials). The clock says that it is 8:55 PM. Jade must go to bed in 5 minutes. 5:55 PM 8:00 PM 9:00 PM What time will it be in 5 minutes? 5:55 PM. 8:00 рм, от 9:00 рм Student Item 8 Option: Α В C Response Here is an input/output table showing what happens to y when x equals 1, 2, 3, 4, and 5. (Point to table in student materials.) The 8 10 4 relationship between x and y can be expressed as the function y equals 2 times x. (Point to function in student materials.) What is the value of y when x equals 4? 4, 8, or 10 Item 9 Student Option: В C Response Α Here is a gumball machine with 26 gumballs in it. (Point to student materials.) If you put money in it you would probably get the kind of black white same gumball that there is most of inside the machine. If the machine has 14 black gumballs and 12 white gumballs, what would you probably get? black, white, or the probability is the same for both colors Item 10 Student Option: CΑ В Response Here is a number line with numbers from negative 10 to positive 10. (Point to student materials.) The number line shows points at $^{-7} > 5$ $^{-}7 = 5$ $^{-7}$ < 5 negative 7 and 5. Which comparison is true? negative 7 is greater than 5, negative 7 is equal to 5, or negative 7 is less than 5

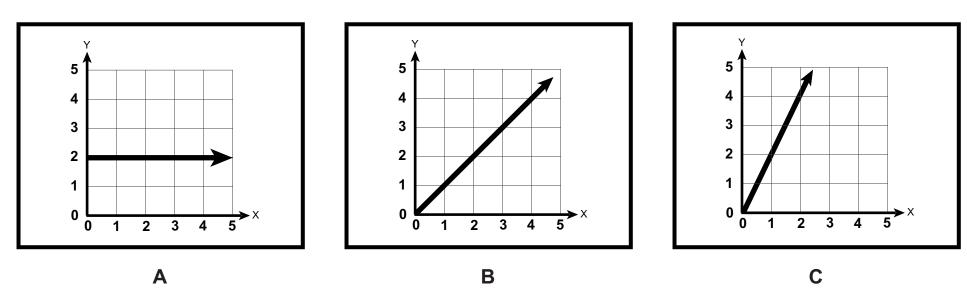
Student Item 11 Option: Α В C Response Here are three scatter plots with data points labeled A, B, and C. (Point to student materials.) The line of best fit shows the С В Α general trend or path that data follow. Which scatter plot shows a line of best fit? A, B, or C Item 12 Student Option: В С Α Response Here is an expression that shows how much Andia gets paid for mowing the lawn. The expression is L times \$10. (Point to student \$15 \$25 \$50 materials.) L is the number of times Andia mows the lawn. If Andia mows the lawn 5 times, how much will she get paid? \$15, \$25, or \$50

7x = 14

Seven times what number equals 14 ?



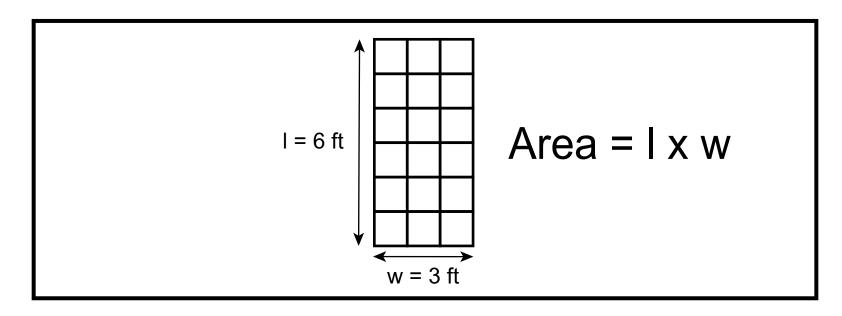
Item 2
Which line has a slope of one up, one to the right?



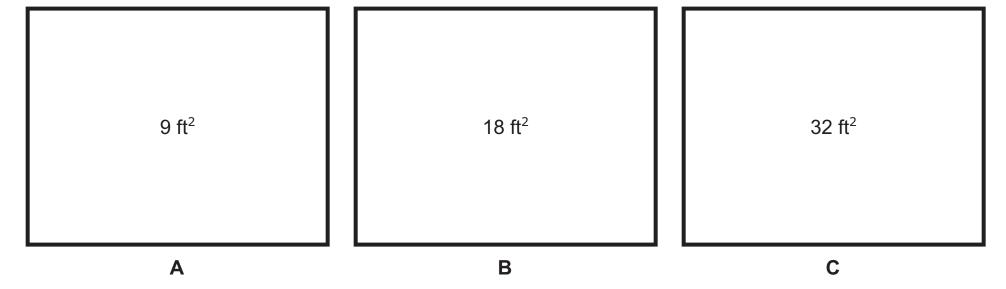
$$x + 1 = 4$$

What number plus 1 equals 4?

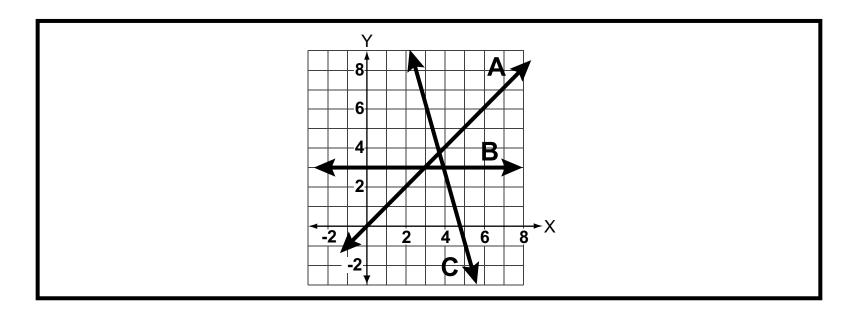
1 2 3 C



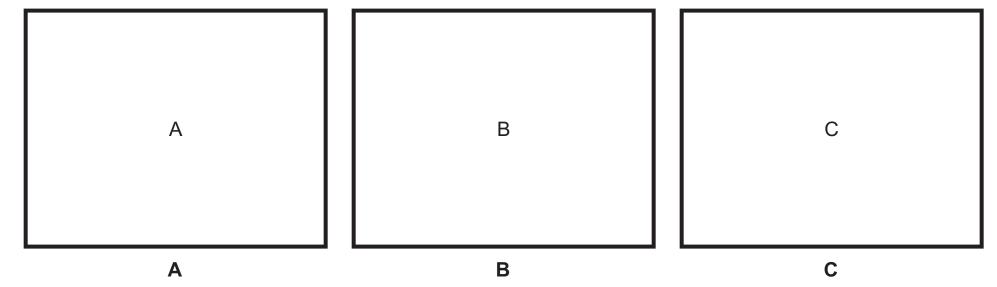
What is the total area of this rectangle?



Item 5



Which line has positive slope?

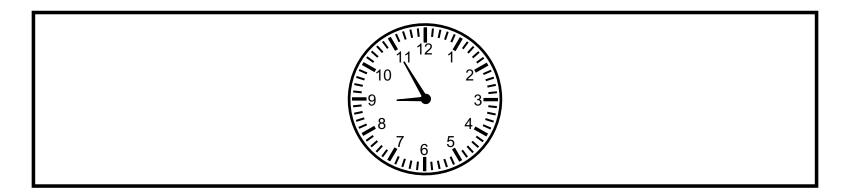


\$10.00 - \$6.00 = \$ ____

Nora had \$10.00. Her lunch cost \$6.00.

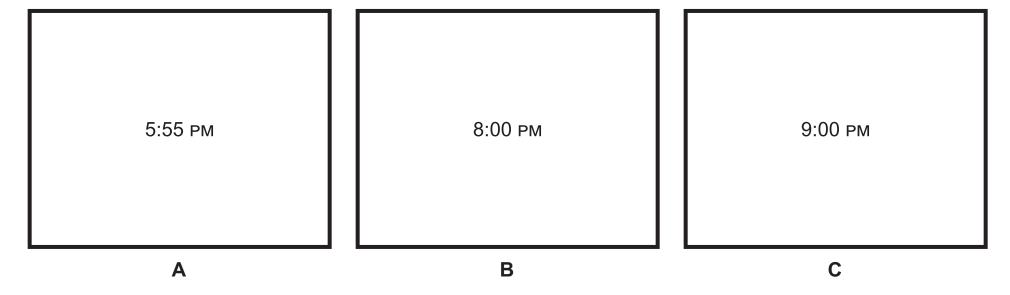
How much money does Nora have left?

\$16.00 \$6.00 \$4.00 C



The clock says that it is 8:55 PM. Jade must go to bed in 5 minutes.

What time will it be in 5 minutes?

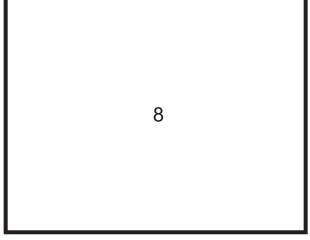


X	у
1	2
2	4
3	6
4	?
5	10

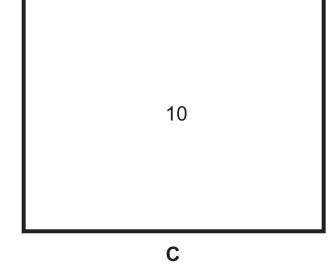
$$y = 2x$$

What is the value of y when x = 4?

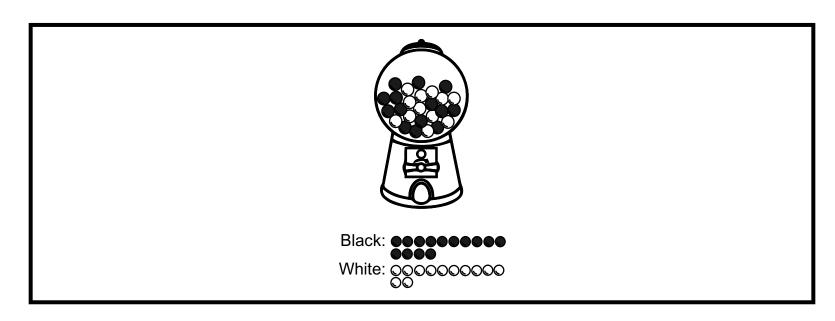
4



В



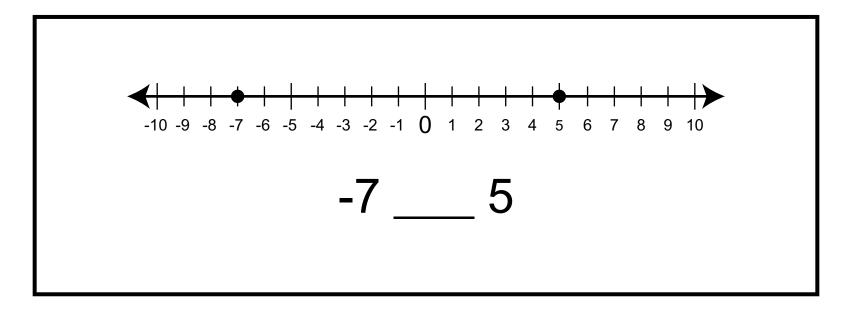
Α



If the machine has 14 black gumballs and 12 white gumballs, what would you probably get?

black white same C В

Item 10



⁻7 > 5

$$^{-}7 = 5$$

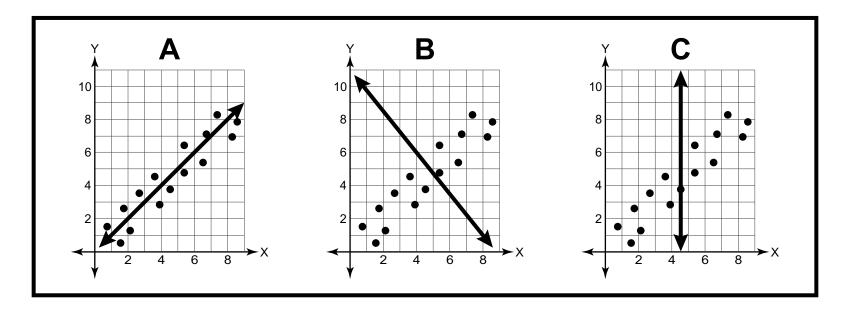
⁻7 < 5

Α

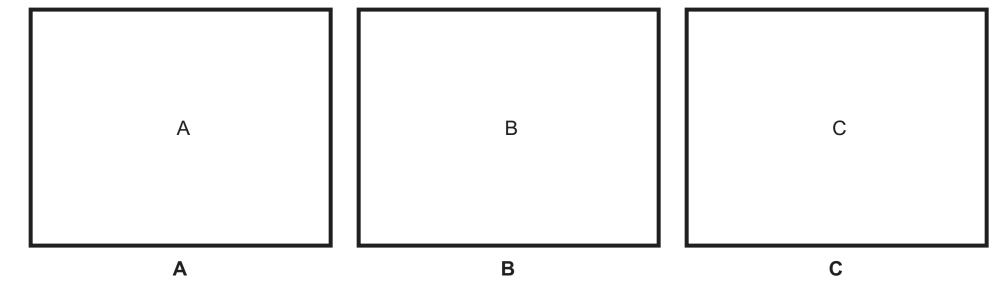
В

C

Item 11



Which scatter plot shows a line of best fit?



 $L \times 10

L is the number of times Andia mows the lawn.

If Andia mows the lawn 5 times, how much will she get paid?

