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Please use ONLY a Number 2 pencil for this session.

Session 1

Mathematics

Directions

Now you will be taking the Mathematics Practice Form. This test has three sessions that contain different types of questions. Today you will take Session 1. Some questions have answer choices that begin with letters. Circle the letter of each correct answer. Other questions will ask you to circle, write or show your answers. Read each question carefully and follow the directions. Mark all your answers in your test booklet. Calculators are not allowed in this session.

DO NOT MARK ON THIS PAGE.

1 There were 12 people on a bus. At the first stop, 4 people got off the bus and 6 people got on the bus. Which expression could be used to find the number of people on the bus after the first stop?

A. $12 + (-6) + 4$

B. $12 + (-6) + (-4)$

C. $12 + 6 + 4$

D. $12 + 6 + (-4)$

2 Select the **two** numbers equivalent to 0.042.

A. 0.42%

B. 4.2%

C. 42%

D. $\frac{42}{1000}$

E. $\frac{42}{100}$

3 A charity needs more than 15 volunteers to help run a fundraising event. Which inequality could be used to represent the number of volunteers, v, needed for the event?

A. $v < 15$

B. $v \leq 15$

C. $v > 15$

D. $v \geq 15$

4 An expression is shown.

$60 + 84$

The expression is rewritten as $6(x + y)$. What is the value of $x + y$?

A. 10

B. 24

C. 74

D. 94

5 Scott earns $15 for each birdhouse that he sells. He uses the expression $15x$ to calculate his earnings, in dollars. What is the meaning of the variable x in Scott's expression?

A. the number of birdhouses he sells

B. the total amount of money he earns

C. the amount of money he earns per birdhouse

D. the number of hours it takes to make each birdhouse

6 What is the distance, in units, between the points (2, 3) and (2, -6) on a coordinate plane?

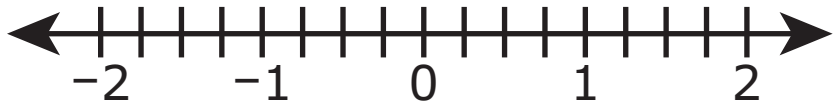
A. 3

B. 5

C. 9

D. 11

7 Plot a point to show the location of $-1\frac{3}{4}$ on the number line.



8 Select the **three** statistical questions.

A. What is your age?

B. What time does school start?

C. How many pets does your friend have?

D. How many siblings does each student in your class have?

E. What is the eye color of each person in your after-school club?

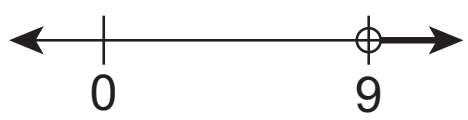
F. How many servings of fruit does each person in your school eat at lunch?

9 Jesse's new pool holds 1,624 gallons of water. He can fill the pool at a rate of 112 gallons per hour. How many hours will it take Jesse to fill his pool?

10 Which graph represents the solution set for the inequality $x \geq 9$?

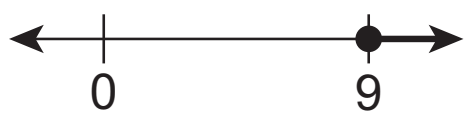
A.

B.

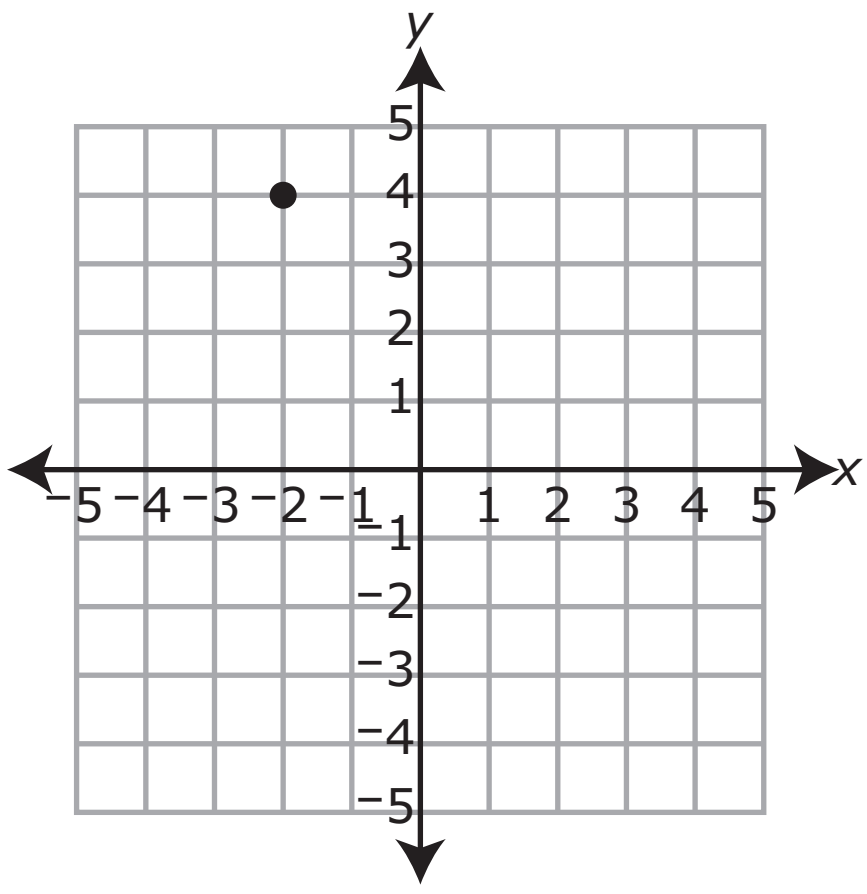


C.

D.



11 The point (−2, 4) is plotted on the coordinate plane.



The point is reflected across the *y*-axis. What are the coordinates of the reflected point?

A. (−2, −4)

B. (−2, 4)

C. (2, −4)

D. (2, 4)

12 Which number is equivalent to $\frac{7}{12} \div \frac{8}{3}$?

A. $\frac{7}{32}$

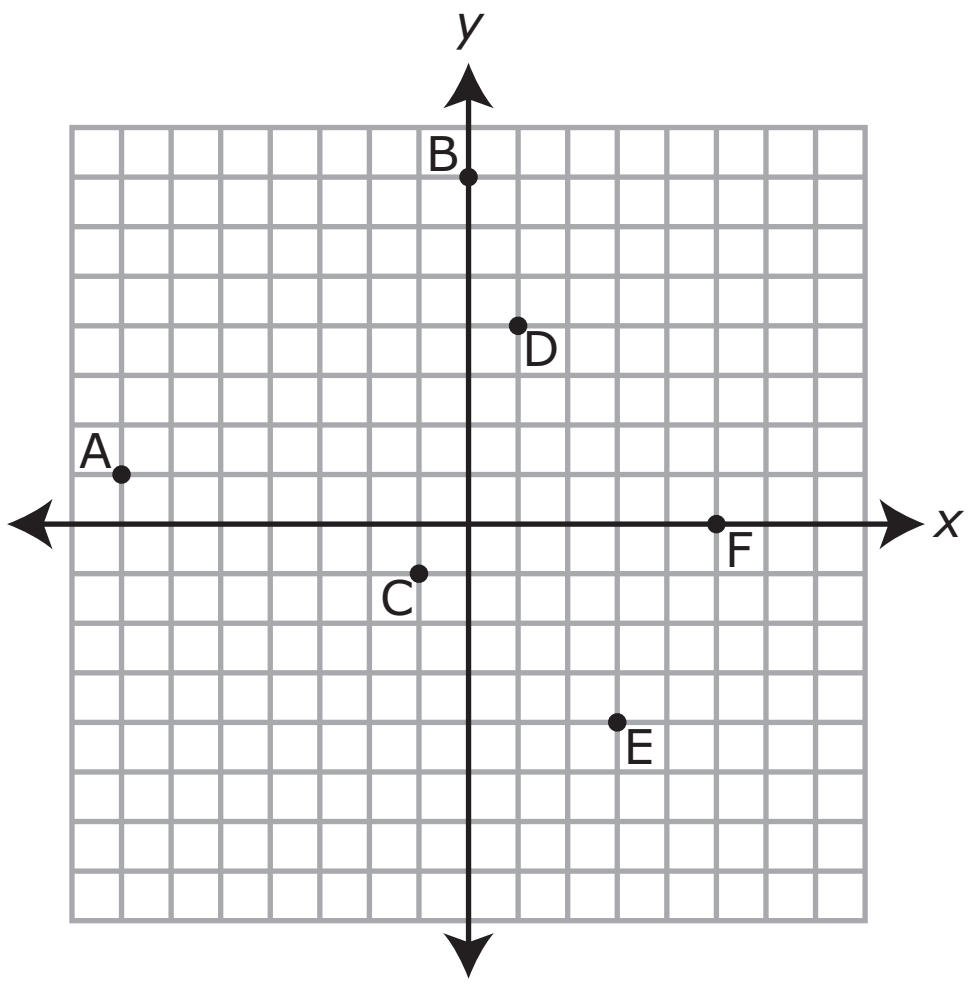
B. $\frac{9}{14}$

C. $\frac{14}{9}$

D. $\frac{32}{7}$

13 The length of a certain rectangle is 5 units more than the width. Write an equation that represents the length, l, in terms of the width, w, for this rectangle.

21 Points A through F are shown on the coordinate plane.



Select the **two** points that have a negative *y*-coordinate.

A. point A

B. point B

C. point C

D. point D

E. point E

F. point F

22 Each of the pairs of values in the table has the same ratio.

x	6	14	k	28
y	9	m	30	42

What are the values of k and m?

A. $k = 16$ and $m = 28$

B. $k = 20$ and $m = 21$

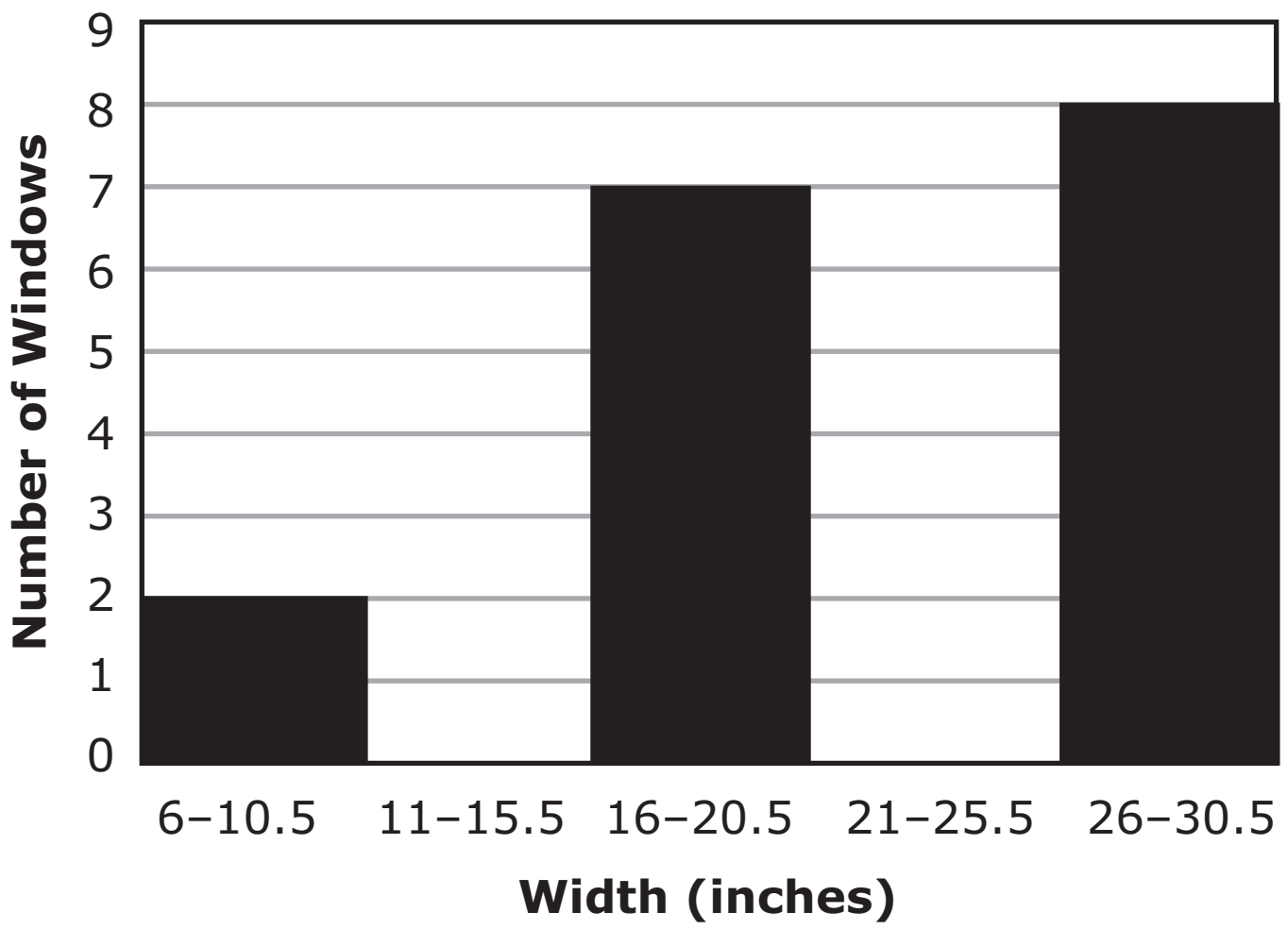
C. $k = 22$ and $m = 18$

D. $k = 27$ and $m = 17$

23 Clark measured the widths, rounded to the nearest half inch, of 21 different windows in his school. He is creating a histogram to display his results. He knows the following pieces of information:

- There is at least 1 window in each interval.
- The median width is 22 inches.

Complete Clark's histogram by adding the missing data.



24 What is the solution set for the inequality $54 < 18x$?

A. $x > 3$

B. $x < 3$

C. $x > 36$

D. $x < 36$

25 Each of the pairs of values in the table has the same ratio.

x	14	21	28
y	4		8

What is the missing value in the table?

26 Which expression has the greatest value?

A. $|-10|$

B. $|-3|$

C. $|6|$

D. $|9|$

STOP STOP STOP

ATTENTION!

Do NOT go on

until you are

told to do so.

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Please use ONLY a Number 2 pencil for this session.

Session 3

Mathematics

Directions

Now you will be taking Session 3 of the Mathematics Practice Form. This session includes a Performance Event that contains a set of questions based on a common task or scenario. Some questions will have answer choices that begin with letters. Circle the letter of each correct answer. Other questions will ask you to circle, write or show your answers. Read each question carefully and follow the directions. Mark all your answers in your test booklet. Calculators are allowed in this session.

DO NOT MARK ON THIS PAGE.

John's family is planning a road trip to Florida.

John is using the following information to help plan the trip:

- total distance (one way): 1,023 miles
- average driving speed: 60 miles per hour
- driving time on first day: 10 hours

1 Based on John's information, how many miles will his family travel on the first day?

2 Complete the table of John's estimates of time driving and distance traveled.

Time Driving (hours)			3	7
Distance Traveled (miles)	60	150		

3 Based on John's information, how many hours will it take the family to travel the total distance to Florida?

A. 17.03

B. 17.3

C. 17.05

D. 17.5

4 Write an equation John can use to represent the relationship between distance traveled, in miles, d, and driving time, in hours, t.

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Data Recognition Corporation
13490 Bass Lake Road
Maple Grove, MN 55311
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