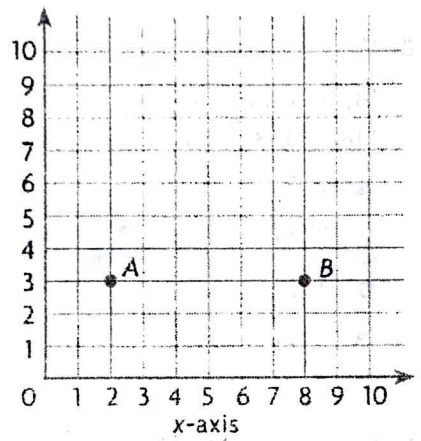
Review Packet #4

Name Answer Key 129

Standards Practice

CC.5.G.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., *x*-axis and *x*-coordinate, *y*-axis and *y*-coordinate).

For questions 1–2, use the coordinate plane below.



1. Which tells you how to plot point *A* on the coordinate plane?

   A Start at the origin, move 2 spaces up, and 3 spaces to the right.

   (B) Start at the origin, move 2 spaces to the right, and 3 spaces up.

   C Start at the origin, move 2 spaces down, and 3 spaces to the right.

   D Start at the origin, move 2 spaces to the right, and 3 spaces down.

2. Which gives the ordered pair for point *B*?

   A (2, 3)

   B (3, 2)

   (C) (8, 3)

   D (3, 8)

3. In a coordinate plane, what are the coordinates of the origin?

   (A) (0, 0)

   B (2, 3)

   C (8, 3)

   D (10, 10)

4. What ordered pair is described below?

   Start at the origin and move 9 spaces up.

   (A) (0, 9)

   B (9, 0)

   C (1, 9)

   D (9, 1)

5. In a coordinate plane, what is the name of the horizontal axis?

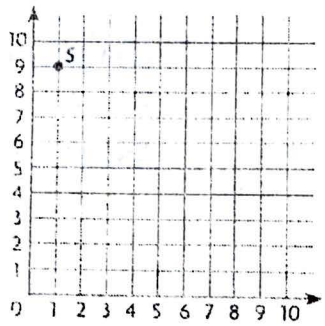
   x-axis

Page 1

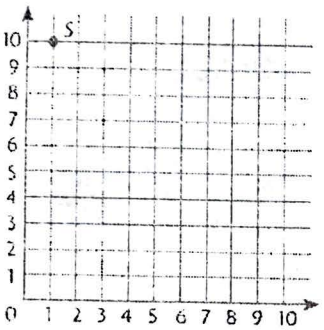
Name _____

6. Which shows point S with an x-coordinate of 9?

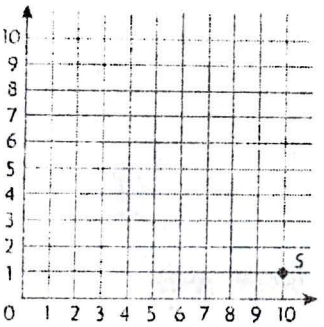
A



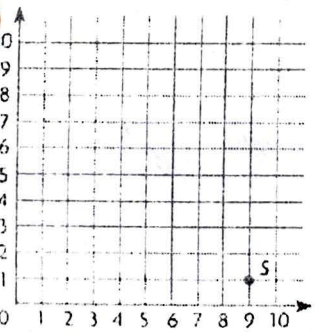
B



C



D



7. When writing an ordered pair, which shows the order of the coordinates?

A (y-coordinate, x-coordinate)

B (y-coordinate, y-coordinate)

C (x-coordinate, x-coordinate)

D (x-coordinate, y-coordinate)

8. Which ordered pair is described below?

Start at the origin, move 7 spaces right, and 1 space up.

A (7, 7)

B (7, 1)

C (1, 7)

D (1, 1)

9. In a coordinate plane, what is the name of the coordinate found on the vertical axis?

y-coordinate

Name _____ Standards Practice

CC.5.OA.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.

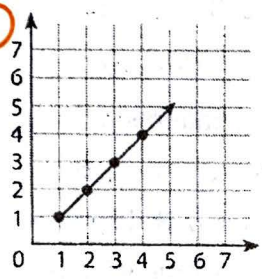
1. Use the two patterns below.

Add 1: 1, 2, 3, ...

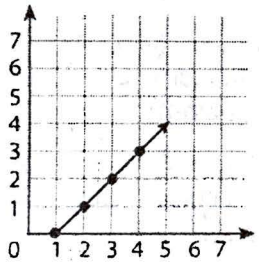
Add 1: 1, 2, 3, ...

Which graph was created using ordered pairs of corresponding terms from the two patterns?

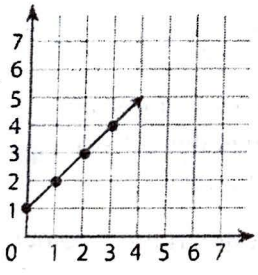
A



B



C



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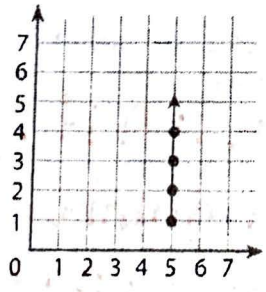


2. Use the two patterns below.

Add 1 with starting number 0.

Add 4 with starting number 0.

Which is the relationship between corresponding terms in the patterns?

A The terms in the second pattern are the same as the corresponding terms in the first pattern.

B The terms in the second pattern are half the corresponding terms in the first pattern.

C The terms in the second pattern are four times the corresponding terms in the first pattern.

D The terms in the second pattern are five times the corresponding terms in the first pattern.

3. Use the two patterns below.

Add 2: 2, 4, 6, ...

Add 6: 6, 12, 18, ...

What are the first four ordered pairs formed from corresponding terms of the two patterns?

(2,6), (4,12), (6,18), (8,24)

Page 3

Name _____

4. Use the two patterns below.

Add 5: 5, 10, 15, ...
Add 10: 10, 20, 30, ...

Which is the relationship between corresponding terms in the patterns?

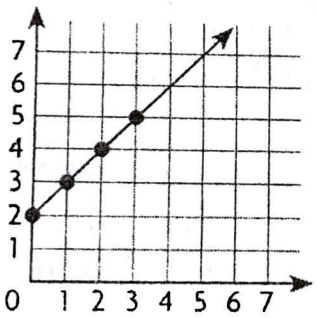
A The terms in the second pattern are 10 times the corresponding terms in the first pattern.

B The terms in the second pattern are five times the corresponding terms in the first pattern.

C The terms in the second pattern are four times the corresponding terms in the first pattern.

D The terms in the second pattern are twice the corresponding terms in the first pattern.

5. Use the graph below.



Which pattern is used to create the ordered pairs graphed on the coordinate plane?

A Add 1 with starting number 2.

B Add 1 with starting number 0.

C Add 1 with starting number 0.

D Add 1 with starting number 0.

6. Use the two patterns below.

Add 3 with starting number 0.

Add 9 with starting number 0.

What are the first three ordered pairs formed from corresponding terms of the two patterns?

A (3, 36), (6, 27), (9, 18)

B (3, 6), (6, 9), (9, 12)

C (0, 0), (3, 9), (6, 18)

D (9, 9), (18, 18), (27, 27)

7. Use the two patterns below.

Add 20: 20, 40, 60, ...

Add 4: 4, 8, 12, ...

Which is the relationship between corresponding terms in the patterns?

A The terms in the second pattern are $\frac{1}{10}$ the corresponding terms in the first pattern.

B The terms in the second pattern are $\frac{1}{5}$ the corresponding terms in the first pattern.

C The terms in the second pattern are $\frac{1}{4}$ the corresponding terms in the first pattern.

D The terms in the second pattern are five times the corresponding terms in the first pattern.

8. Use the ordered pairs below.

(10, 20), (11, 21), (12, 22)

What patterns are used to create the ordered pairs?

(x) Pattern 1: Add 1, starting with number 10

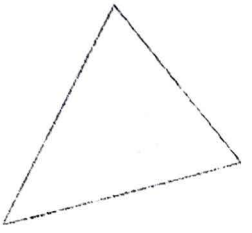
(y) Pattern 2: Add 1, starting with number 20

Page 4

Name _____

CC.5.G.4 Classify two-dimensional figures in a hierarchy based on properties.

1. Sarah is working on a puzzle that has a piece shaped like a triangle. What type of triangle is the puzzle piece?



(A) acute
B obtuse
C right
D equilateral

2. The largest U.S.-government building is the Pentagon. Based on its name, how many sides does the Pentagon have?

A 4 sides
(B) 5 sides
C 6 sides
D 7 sides

3. Are the angles of an equilateral triangle acute, obtuse, or right?

acute

4. Mary Beth sees a shape that has 8 sides and 8 angles. Which shape did Mary Beth see?

A triangle
B pentagon
C hexagon
(D) octagon

5. Which type of triangle can have angle measures of 30°, 60°, and 90°?

A acute triangle
B equilateral triangle
C obtuse triangle
(D) right triangle

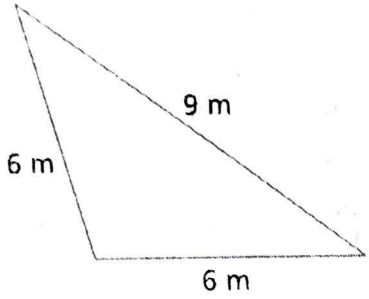
6. How many interior angles does a hexagon have?

six

Page 5

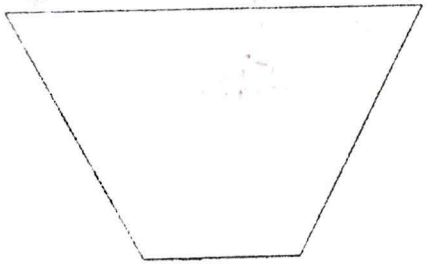
Name _____

7. Jonas's garden is in the shape of a triangle. What is the best way to classify the shape of his garden?



A acute
B scalene
C equilateral
D isosceles

8. Marilyn's yard is a quadrilateral with 1 pair of parallel sides.



Which describes Marilyn's yard?

A triangle
B trapezoid
C parallelogram
D kite

9. Cheryl flipped through the pages of her math textbook and saw a rhombus with 4 right angles. Which shape did Cheryl see in her textbook?

square

10. Tricia wants to draw a shape with 10 sides and 10 angles. Which shape does Tricia want to draw?

A circle
B decagon
C octagon
D pentagon

11. Which statement about triangles is true?

A A triangle can have only one acute angle.
B A triangle can have only one right angle.
C A triangle can have more than one right angle.
D A triangle can have more than one obtuse angle.

12. Patrick is writing about a set of quadrilaterals that includes rectangles, rhombuses, and squares. What set of quadrilaterals is Patrick writing about?

parallelograms

Page 6