Bright Path Sped



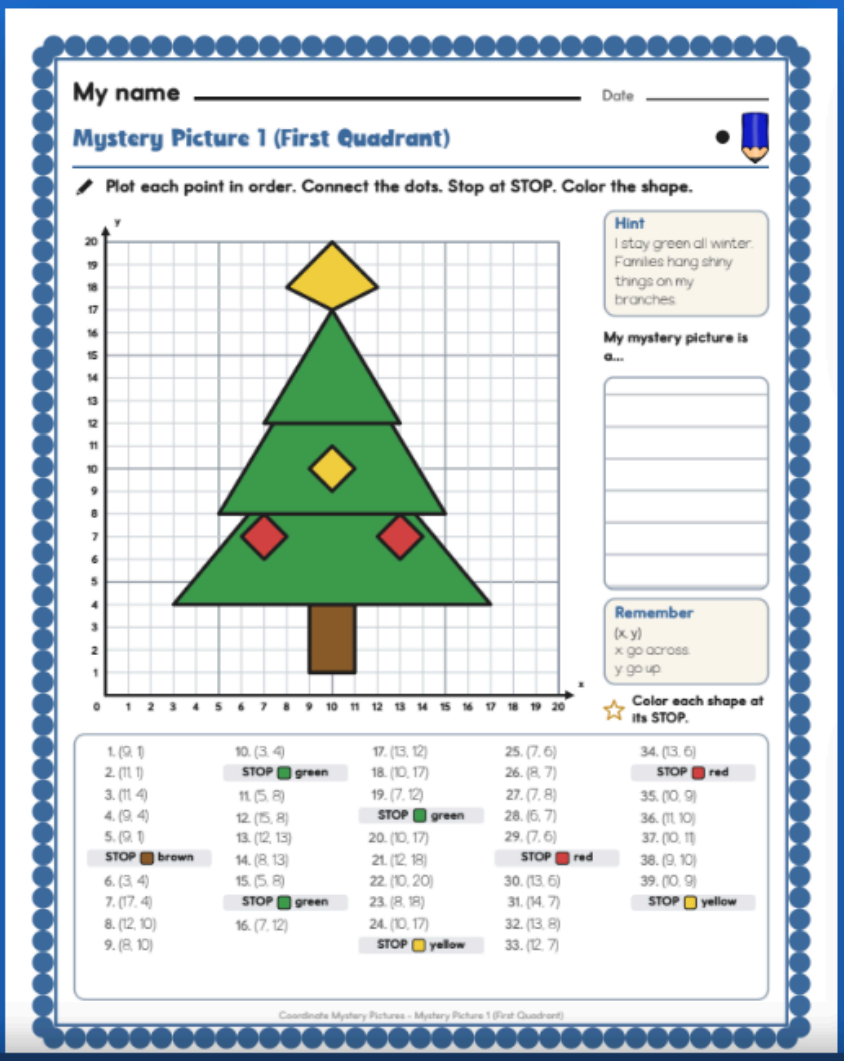


12 PICTURES

1 & 4 QUADRANTS







CHRISTMAS COORDINATE GRAPHING MYSTERY PICTURES

Grades 5-8

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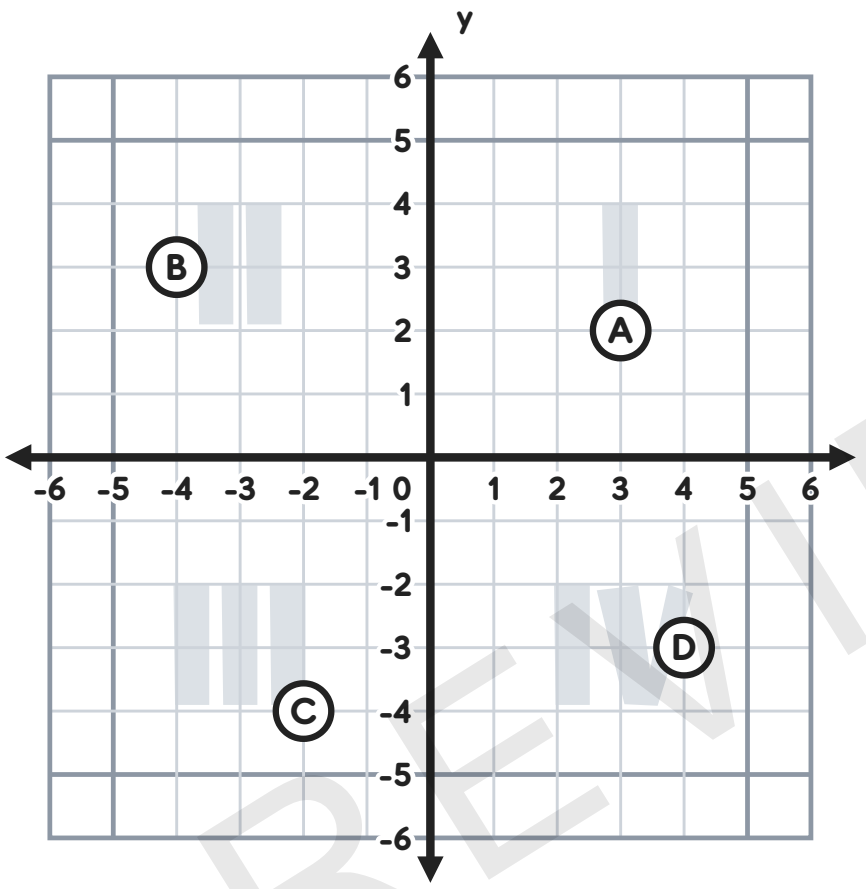
PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

How to Plot a Point

Read how to plot a point for coordinate graphing. Look at the four quadrants.



The ordered pair

(x, y)
Start at (0, 0), the origin.
The first number is x: go across.
The second number is y: go up or down.

Plus and minus

x: right is +, left is -.
y: up is +, down is -.

Four quadrants

The quadrants count around, starting at the top right: I, II, III, IV.

Try it

To plot B (-4, 3): start at (0, 0), go left 4, then go up 3. Put the dot there.

Start at (0, 0) and walk to each point:

A (3, 2)	right 3, up 2	Quadrant I
B (-4, 3)	left 4, up 3	Quadrant II
C (-2, -4)	left 2, down 4	Quadrant III
D (4, -3)	right 4, down 3	Quadrant IV

Your turn: tell how to plot the point (-4, 3). Use the words left and up.

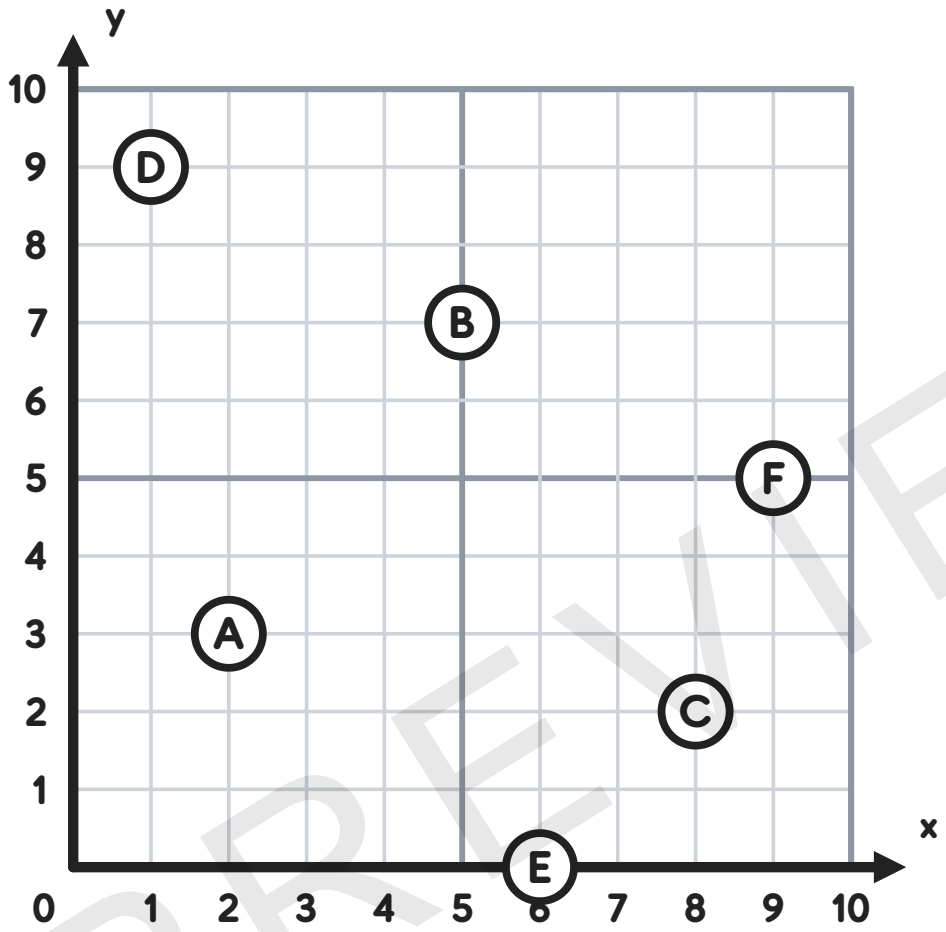
PREVIEW

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My name _____ Date _____

Name the Points (First Quadrant)

Write each point. Then plot and label G to J.



Write each ordered pair:

A (___ , ___)

B (___ , ___)

C (___ , ___)

D (___ , ___)

E (___ , ___)

F (___ , ___)

Plot and label

G	(2, 9)	H	(7, 1)
I	(0, 5)	J	(9, 9)

Start at (0, 0). Go right 4. Go up 6. Where are you? (___ , ___)

Start at (0, 0). Go right 7. Go up 2. Where are you? (___ , ___)

Start at (0, 0). Go right 0. Go up 8. Where are you? (___ , ___)

Which number do you use first, x or y? How do you know?

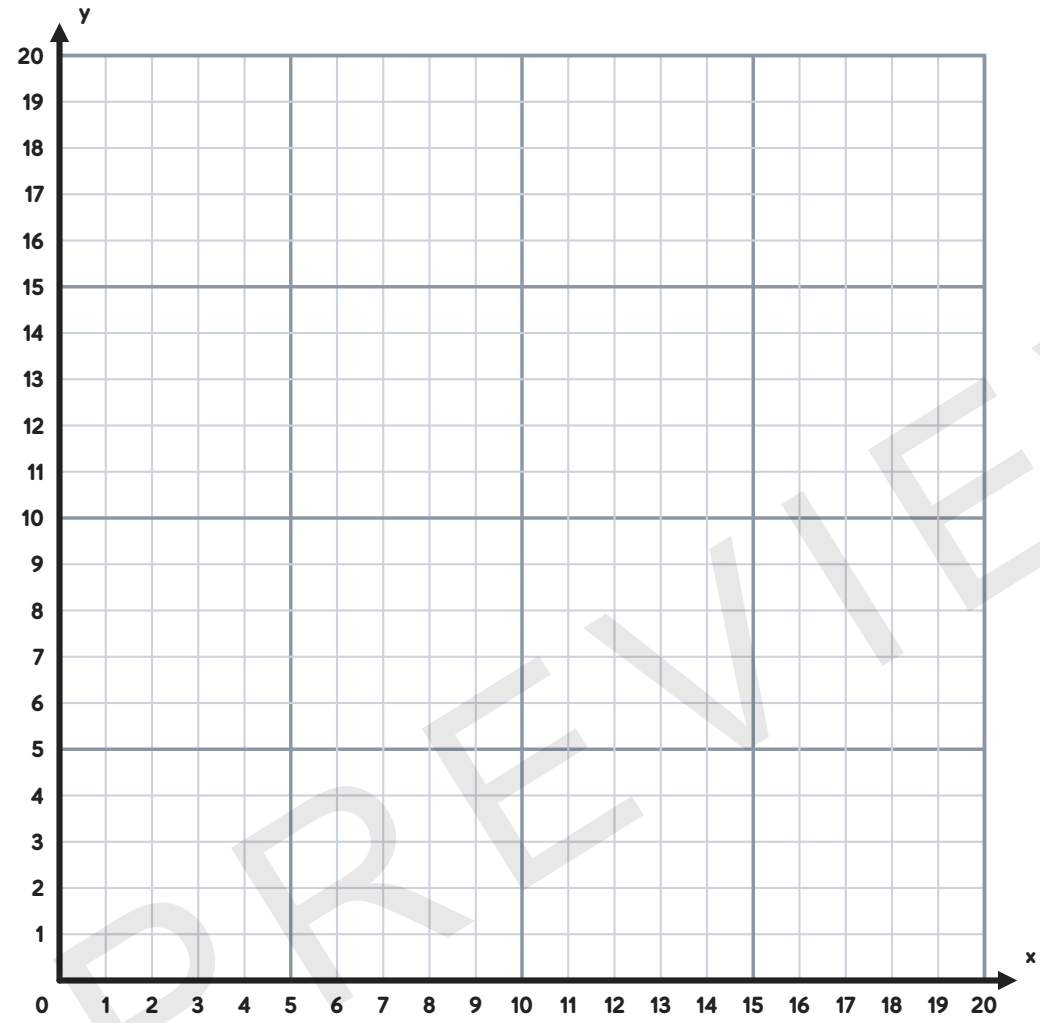
PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Mystery Picture 1 (First Quadrant)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

I stay green all winter. Families hang shiny things on my branches.

My mystery picture is a...

Remember

(x, y)
x: go across.
y: go up.

Color each shape at its STOP.

1. (9, 1)
2. (11, 1)
3. (11, 4)
4. (9, 4)
5. (9, 1)

STOP brown

6. (3, 4)
7. (17, 4)
8. (12, 10)
9. (8, 10)
10. (3, 4)

STOP green

11. (5, 8)
12. (15, 8)
13. (12, 13)
14. (8, 13)
15. (5, 8)

STOP green

16. (7, 12)
17. (13, 12)
18. (10, 17)
19. (7, 12)

STOP green

20. (10, 17)
21. (12, 18)
22. (10, 20)
23. (8, 18)
24. (10, 17)

STOP yellow

25. (7, 6)
26. (8, 7)
27. (7, 8)
28. (6, 7)
29. (7, 6)

STOP red

30. (13, 6)
31. (14, 7)
32. (13, 8)
33. (12, 7)
34. (13, 6)

STOP red

35. (10, 9)
36. (11, 10)
37. (10, 11)
38. (9, 10)
39. (10, 9)

STOP yellow

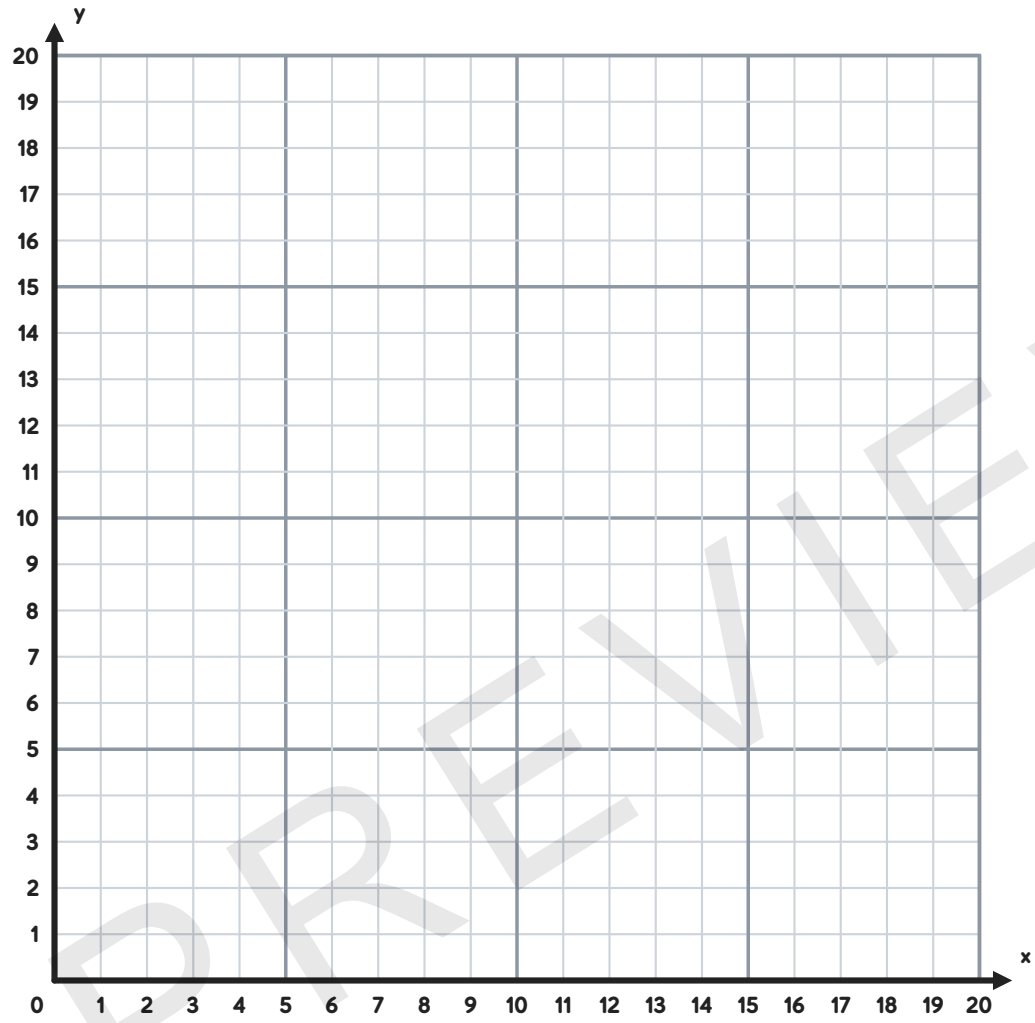
PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Mystery Picture 3 (First Quadrant)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

I am wrapped up with a ribbon. Open me to find out what is inside.

My mystery picture is a...

Remember

(x, y)
x: go across.
y: go up.

Color each shape at its STOP.

1. (3, 2)
2. (17, 2)
3. (17, 12)
4. (3, 12)
5. (3, 2)

STOP green

6. (2, 12)
7. (18, 12)
8. (18, 15)
9. (2, 15)
10. (2, 12)

STOP red

11. (9, 2)
12. (11, 2)
13. (11, 15)
14. (9, 15)
15. (9, 2)

STOP yellow

16. (5, 4)
17. (6, 5)
18. (5, 6)
19. (4, 5)
20. (5, 4)

STOP blue

21. (14, 8)
22. (15, 9)
23. (14, 10)
24. (13, 9)
25. (14, 8)

STOP blue

26. (10, 15)
27. (5, 19)
28. (4, 16)
29. (10, 15)

STOP yellow

30. (10, 15)
31. (15, 19)
32. (16, 16)
33. (10, 15)

STOP yellow

34. (9, 15)
35. (11, 15)
36. (11, 17)
37. (9, 17)
38. (9, 15)

STOP orange

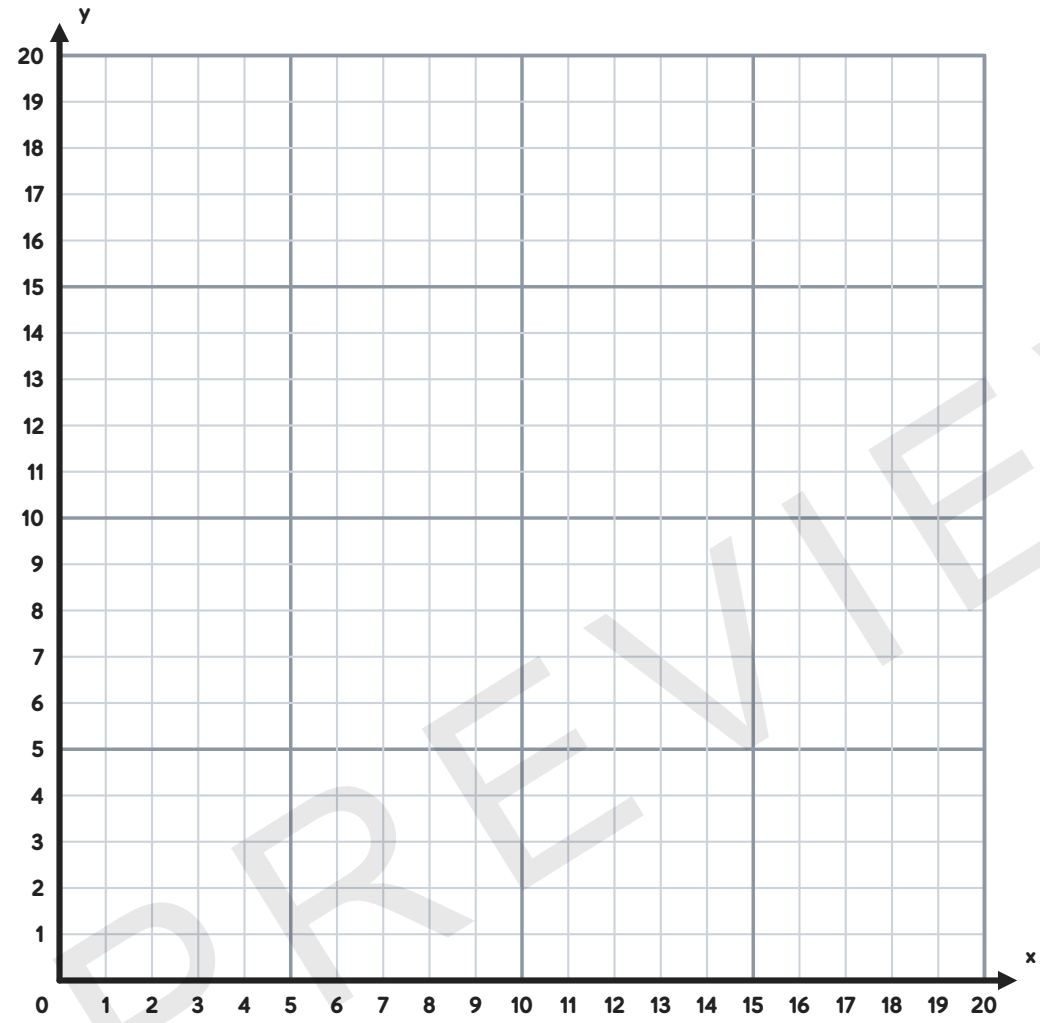
PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Mystery Picture 5 (First Quadrant)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

I keep fingers warm on a snowy day. I come in a pair.

My mystery picture is a...

Remember

(x, y)
x: go across.
y: go up.

Color each shape at its STOP.

1. (7, 6)
2. (14, 6)
3. (14, 14)
4. (12, 18)
5. (9, 18)
6. (7, 14)
7. (7, 6)

STOP blue

8. (7, 8)
9. (4, 10)
10. (3, 12)
11. (5, 13)
12. (7, 12)
13. (7, 8)

STOP blue

14. (6, 2)
15. (15, 2)
16. (15, 6)
17. (6, 6)
18. (6, 2)

STOP light blue

19. (6, 3)
20. (15, 3)
21. (15, 4)
22. (6, 4)
23. (6, 3)

STOP red

24. (10, 9)
25. (11, 10)
26. (10, 11)
27. (9, 10)
28. (10, 9)

STOP yellow

29. (10, 13)
30. (11, 14)
31. (10, 15)
32. (9, 14)
33. (10, 13)

STOP red

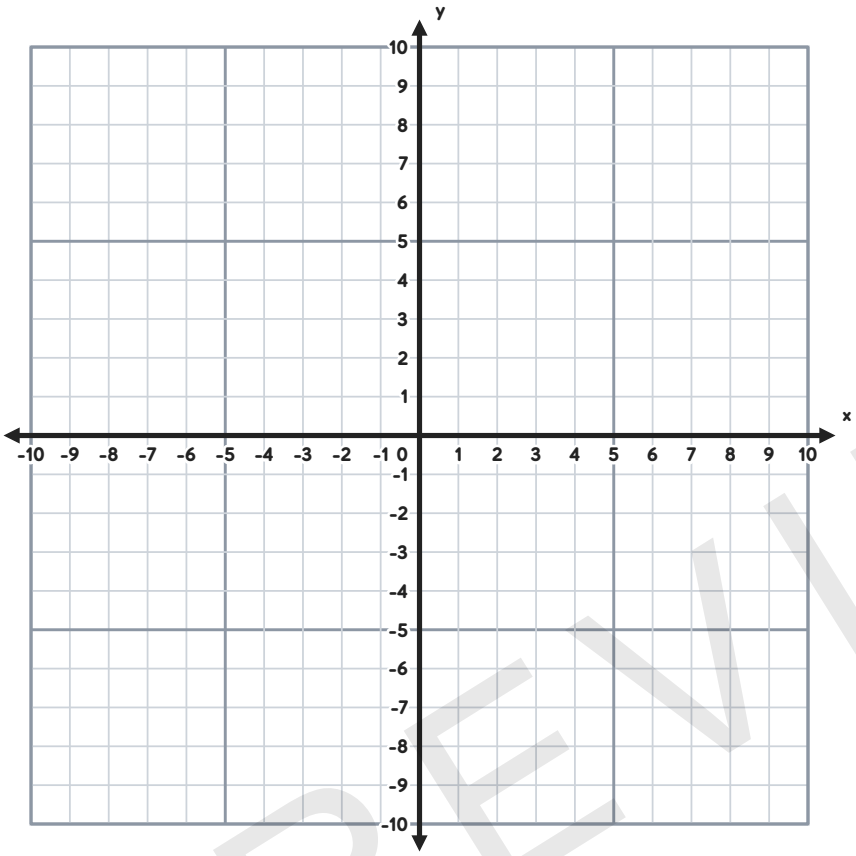
PREVIEW

Preview - Bright Ezee Shop

My name _____ Date _____

Mystery Picture 7 (Four Quadrants)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

I am round and shiny. I hang from a branch, not from the ceiling.

My mystery picture is a...

Remember

(x, y)
x: right +, left -.
y: up +, down -.

Color each shape at its STOP.

1. (-2, -7)
2. (2, -7)
3. (6, -4)
4. (7, 0)
5. (6, 4)
6. (2, 7)
7. (-2, 7)
8. (-6, 4)
9. (-7, 0)
10. (-6, -4)
11. (-2, -7)

STOP red

12. (-2, 7)
13. (2, 7)
14. (2, 9)
15. (-2, 9)
16. (-2, 7)

STOP yellow

17. (-1, 9)
18. (1, 9)
19. (0, 10)
20. (-1, 9)

STOP gray

21. (0, -2)
22. (2, 0)
23. (0, 2)
24. (-2, 0)
25. (0, -2)

STOP yellow

26. (-4, -1)
27. (-3, 0)
28. (-4, 1)
29. (-5, 0)
30. (-4, -1)

STOP blue

31. (4, -1)
32. (5, 0)
33. (4, 1)
34. (3, 0)
35. (4, -1)

STOP blue

36. (-4, 3)
37. (-2, 5)
38. (-2, 3)
39. (-4, 3)

STOP pink

40. (-6, 3)
41. (-4, 5)
42. (-2, 3)
43. (0, 5)
44. (2, 3)
45. (4, 5)
46. (6, 3)
47. (6, 2)
48. (4, 4)
49. (2, 2)
50. (0, 4)
51. (-2, 2)
52. (-4, 4)
53. (-6, 2)
54. (-6, 3)

STOP light blue

55. (-3, -5)
56. (-2, -4)
57. (-3, -3)
58. (-4, -4)
59. (-3, -5)

STOP green

60. (3, -5)
61. (4, -4)
62. (3, -3)
63. (2, -4)
64. (3, -5)

STOP green

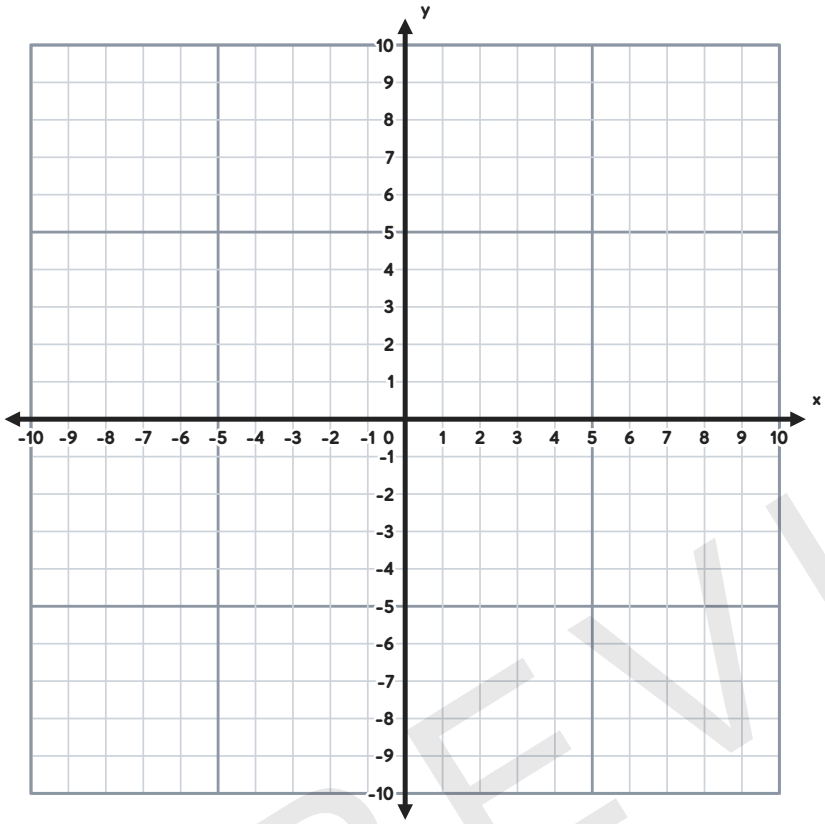
PREVIEW

Preview - Bright Ezee Shop

My name _____ Date _____

Mystery Picture 9 (Four Quadrants)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

No two of me are alike. I float down on a cold day.

My mystery picture is a...

Remember

(x, y)
x: right +, left -.
y: up +, down -.

Color each shape at its STOP.

1. (0, 9)
2. (2, 3)
3. (6, 6)
4. (3, 2)
5. (9, 0)
6. (3, -2)
7. (6, -6)
8. (2, -3)
9. (0, -9)
10. (-2, -3)
11. (-6, -6)
12. (-3, -2)
13. (-9, 0)
14. (-3, 2)
15. (-6, 6)
16. (-2, 3)

17. (0, 9)

STOP light blue

18. (0, -2)
19. (2, 0)
20. (0, 2)
21. (-2, 0)
22. (0, -2)

STOP dark blue

23. (0, 5)
24. (1, 6)
25. (0, 7)
26. (-1, 6)
27. (0, 5)

STOP dark blue

28. (0, -7)
29. (1, -6)
30. (0, -5)
31. (-1, -6)
32. (0, -7)

STOP dark blue

33. (5, -1)
34. (6, 0)
35. (5, 1)
36. (4, 0)
37. (5, -1)

STOP dark blue

38. (-5, -1)
39. (-4, 0)
40. (-5, 1)
41. (-6, 0)
42. (-5, -1)

STOP dark blue

43. (-8, 7)
44. (-7, 8)
45. (-8, 9)
46. (-9, 8)
47. (-8, 7)

STOP purple

48. (8, 7)
49. (9, 8)
50. (8, 9)
51. (7, 8)
52. (8, 7)

STOP purple

53. (-8, -9)
54. (-7, -8)
55. (-8, -7)
56. (-9, -8)
57. (-8, -9)

STOP purple

58. (8, -9)
59. (9, -8)
60. (8, -7)
61. (7, -8)
62. (8, -9)

STOP purple

63. (0, -1)
64. (1, 0)
65. (0, 1)
66. (-1, 0)
67. (0, -1)

STOP yellow

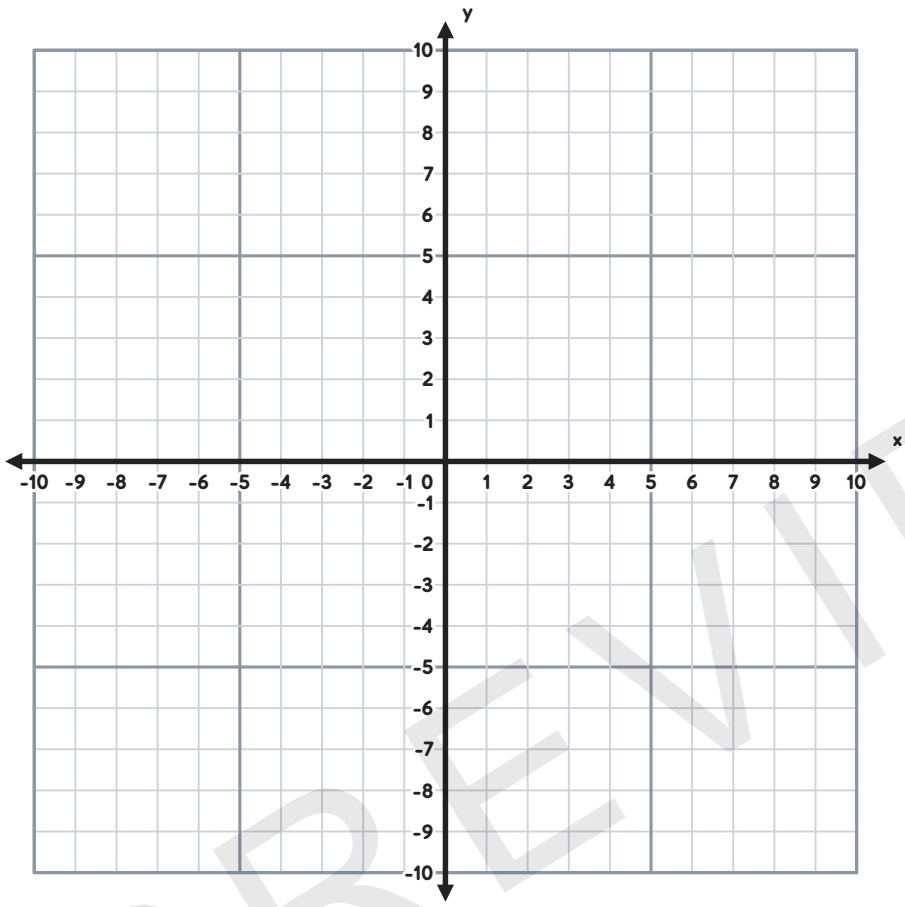
PREVIEW

Preview - Bright Ezee Shop

My name _____ Date _____

Mystery Picture 11 (Four Quadrants)

Plot each point in order. Connect the dots. Stop at STOP. Color the shape.



Hint

I have a chimney and a snowy roof. A family stays warm inside me.

My mystery picture is a...

Remember

(x, y)
x: right +, left -.
y: up +, down -.

Color each shape at its STOP.

1. (-9, -9)
2. (9, -9)
3. (9, -7)
4. (-9, -7)
5. (-9, -9)

STOP light blue

6. (3, 4)
7. (5, 4)
8. (5, 9)
9. (3, 9)
10. (3, 4)

STOP gray

11. (-6, -7)
12. (6, -7)
13. (6, 1)
14. (-6, 1)
15. (-6, -7)

STOP brown

16. (-8, 1)
17. (0, 8)
18. (8, 1)
19. (-8, 1)

STOP red

20. (-2, 6)
21. (0, 8)
22. (2, 6)
23. (1, 5)
24. (0, 6)
25. (-1, 5)
26. (-2, 6)

STOP light blue

27. (-1, -7)
28. (1, -7)
29. (1, -2)
30. (-1, -2)
31. (-1, -7)

STOP orange

32. (-5, -4)
33. (-2, -4)
34. (-2, -1)
35. (-5, -1)
36. (-5, -4)

STOP yellow

37. (2, -4)
38. (5, -4)
39. (5, -1)
40. (2, -1)
41. (2, -4)

STOP yellow

42. (-4, -4)
43. (-3, -4)
44. (-3, -1)
45. (-4, -1)
46. (-4, -4)

STOP brown

47. (3, -4)
48. (4, -4)
49. (4, -1)
50. (3, -1)
51. (3, -4)

STOP brown

52. (0, 2)
53. (1, 3)
54. (0, 4)
55. (-1, 3)
56. (0, 2)

STOP yellow

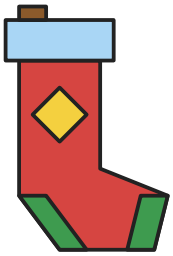
PREVIEW

The Finished Pictures

All 12 mystery pictures, colored the way the shape list says. Show this page after students finish, or cut it up for a bulletin board. Pictures 1 to 6 start on page 7; pictures 7 to 12 start on page 13.



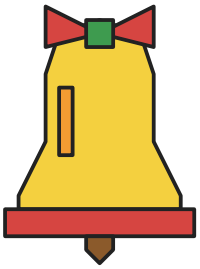
1. Christmas tree
page 7



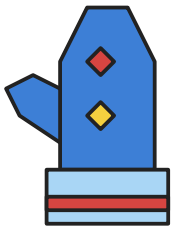
2. Christmas stocking
page 8



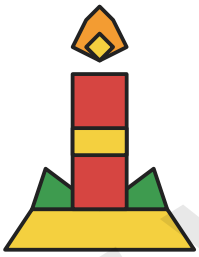
3. Gift box
page 9



4. Bell
page 10



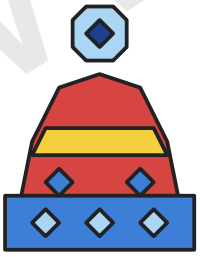
5. Mitten
page 11



6. Candle
page 12



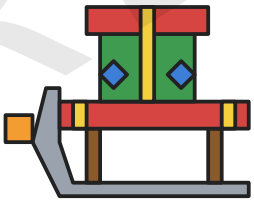
7. Ornament
page 13



8. Winter hat
page 14



9. Snowflake
page 15



10. Sled
page 16



11. Cabin
page 17



12. Star
page 18

The crayons you need

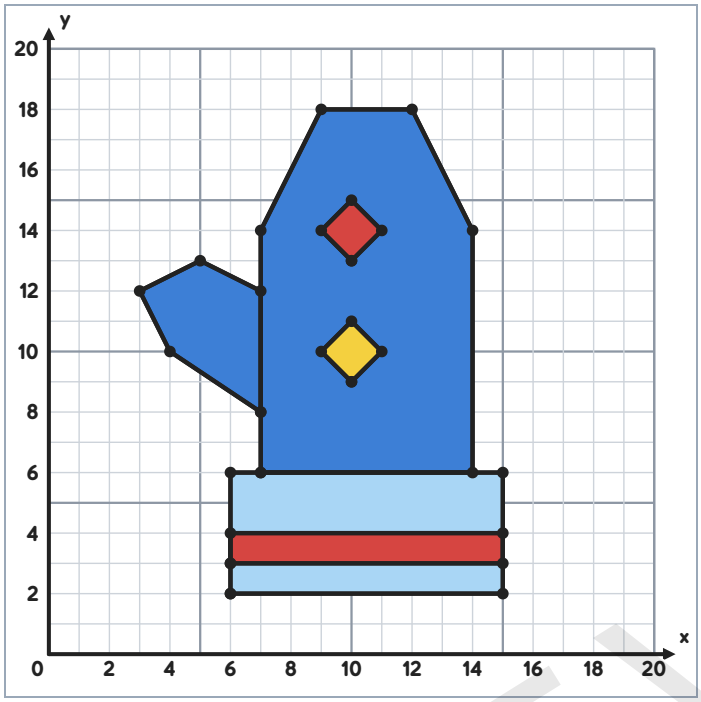
- red
- green
- brown
- yellow
- orange
- blue
- light blue
- dark blue
- gray
- pink
- purple

PREVIEW

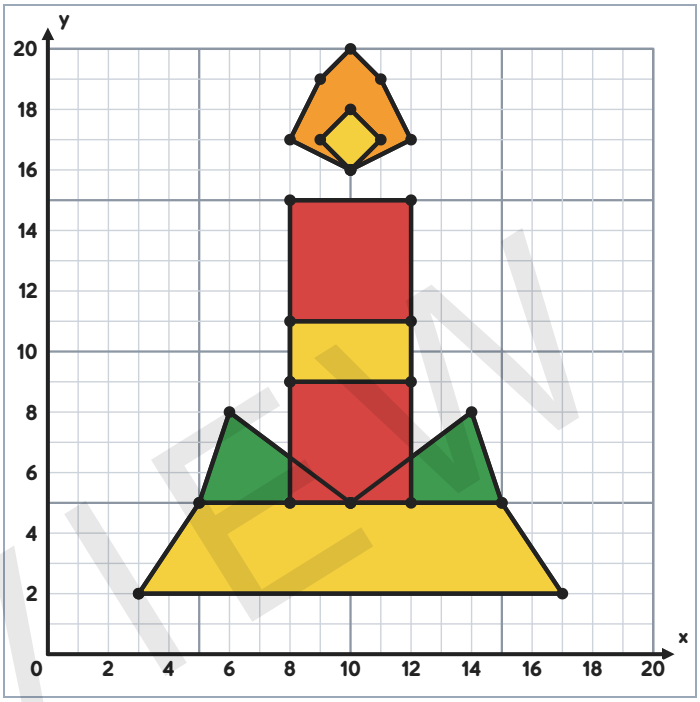
Answer Key: Mystery Pictures 5 to 8

Each picture is drawn from the same list of points the students plot. A dot marks every point, and every dot is on a gridline crossing. Accept a picture that matches the key, even if the lines are a little wobbly.

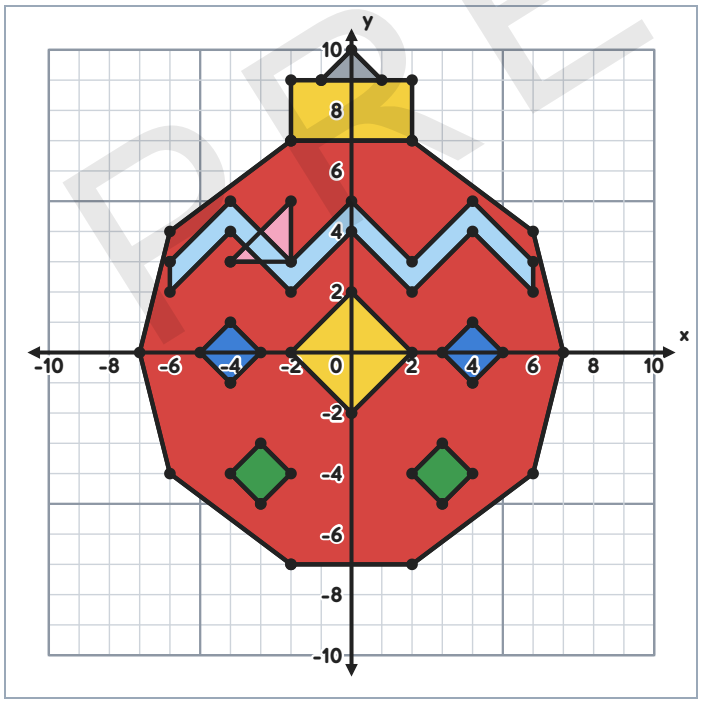
5. Mitten, first quadrant (page 11): 33 points, 6 shapes



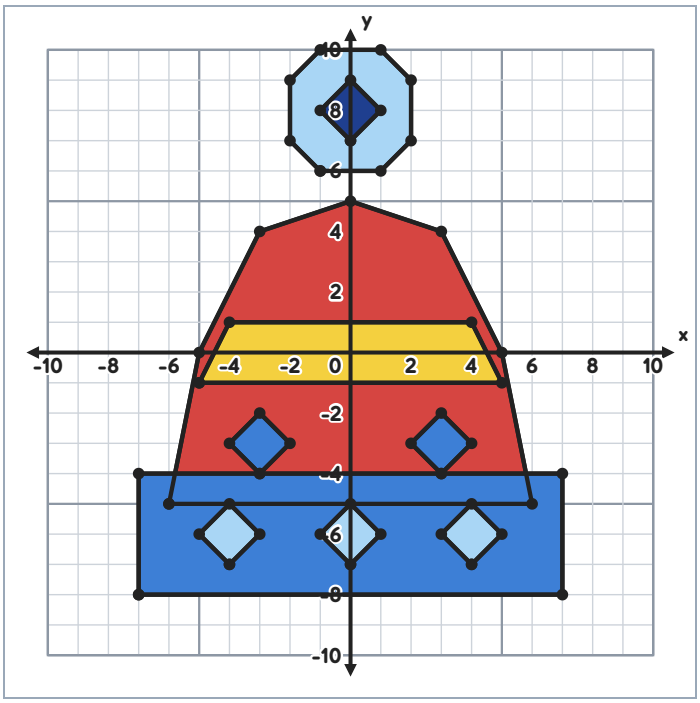
6. Candle, first quadrant (page 12): 35 points, 7 shapes



7. Ornament, four quadrants (page 13): 64 points, 10 shapes



8. Winter hat, four quadrants (page 14): 57 points, 10 shapes

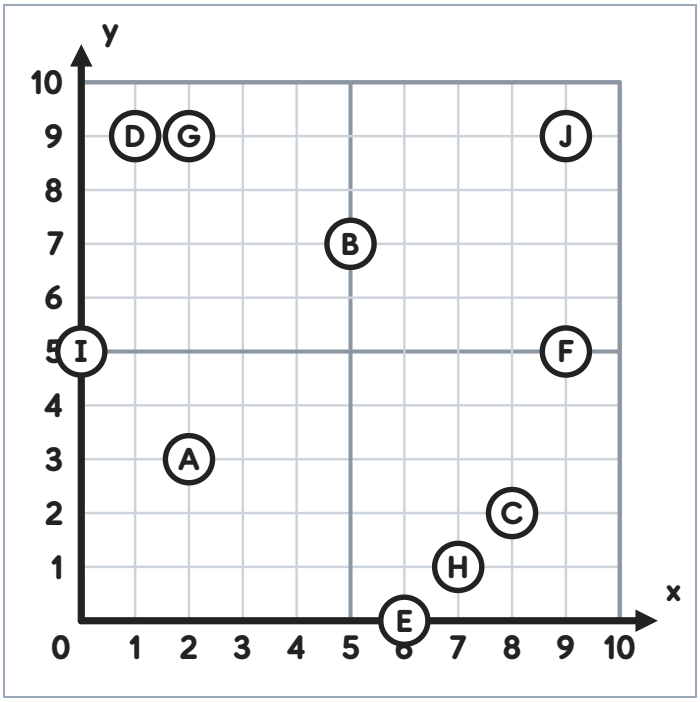


PREVIEW

Answer Key: Warm-Ups

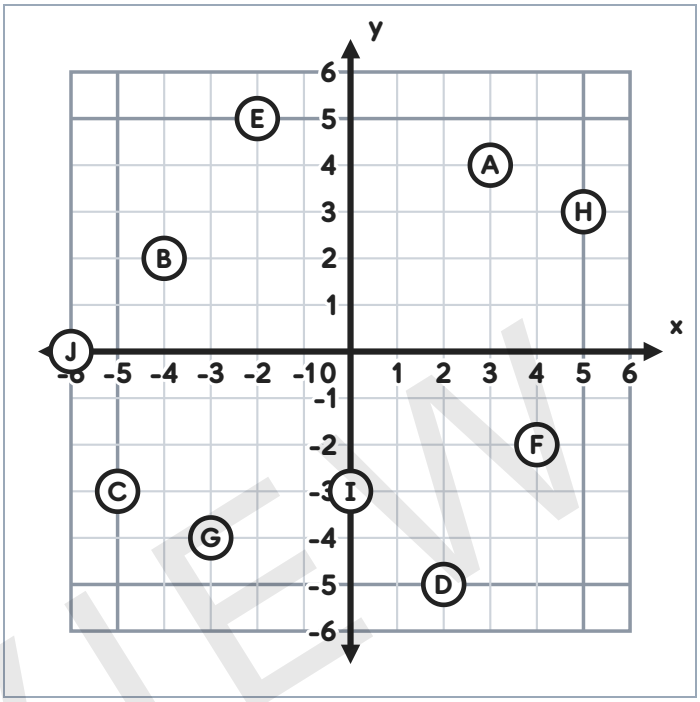
Pages 5 and 6. Dots with letters are the points A to J.

Name the Points (First Quadrant) (page 5): 13 items



Item	Answer
A	(2, 3)
B	(5, 7)
C	(8, 2)
D	(1, 9)
E	(6, 0)
F	(9, 5)
G	(2, 9) plotted
H	(7, 1) plotted
I	(0, 5) plotted
J	(9, 9) plotted
Walk 1	(4, 6)
Walk 2	(7, 2)
Walk 3	(0, 8)

Name the Points (Four Quadrants) (page 6): 16 items



Item	Answer
A	(3, 4), Quadrant I
B	(-4, 2), Quadrant II
C	(-5, -3), Quadrant III
D	(2, -5), Quadrant IV
E	(-2, 5), Quadrant II
F	(4, -2), Quadrant IV
G	(-3, -4) plotted
H	(5, 3) plotted
I	(0, -3) plotted
J	(-6, 0) plotted

Page 4 and page 19

The walks on page 4 are filled in for the student. On page 19 any picture is right if every point is a whole number from -10 to 10. To check one, a partner plots the list and compares it with the first drawing.

Scoring a plotting page

Count a point right if it sits on the correct crossing. Count the picture done when every line stops at STOP and no line joins two points that are on different lines. The tracker uses the point count, so a page is out of its number of points.

PREVIEW

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Class Progress Grid

Every student on one grid: items right by page group.

Class or group _____ Month _____

Student	Warm-ups (of 29)	First quadrant (of 219)	Four quadrants (of 362)	All pages (of 610)	Next practice

PREVIEW

How to fill this in

For each column, add up the items a student has right with no prompt (the tracker rows). One glance across a row shows whether plotting, negative numbers or the warm-ups come next.

Grouping for small-group time

Students low in Warm-ups can start with page 4 and the first-quadrant warm-up (page 5). Students who plot the first quadrant well can move to the four-quadrant warm-up (page 6) and then the four-quadrant pictures. Students at full marks can try Design Your Own (page 19).

Maya's Tracker (Invented Student)

Maya T. is invented; nothing on this page describes a real student. The blank tracker is on page 25.

Student: Maya T. (an invented student)

Teacher: Ms. Lindqvist (invented)

Month: October

Page	Page and picture	Items	Right	Date	Notes
5	Name the Points (First Quadrant)	13	12	10/6	Swapped x and y once
6	Name the Points (Four Quadrants)	16	13	10/8	Missed two quadrants
7	Picture 1, first quadrant: Christmas tree	39	39	10/10	-
8	Picture 2, first quadrant: Christmas stocking	33	31	10/13	Flipped two points
9	Picture 3, first quadrant: Gift box	38	35	10/15	Skipped a STOP
10	Picture 4, first quadrant: Bell	41	-	-	-
11	Picture 5, first quadrant: Mitten	33	-	-	-
12	Picture 6, first quadrant: Candle	35	-	-	-
13	Picture 7, four quadrants: Ornament	64	60	10/20	Sign slips on negatives
14	Picture 8, four quadrants: Winter hat	57	-	-	-
15	Picture 9, four quadrants: Snowflake	67	-	-	-
16	Picture 10, four quadrants: Sled	64	-	-	-
17	Picture 11, four quadrants: Cabin	56	-	-	-
18	Picture 12, four quadrants: Star	54	-	-	-

PREVIEW

How to read it

Maya T. has done **6 of 14** scored pages and got **190 of 203** items right with no prompt. **1** page was all right and **5** carry a note. Every number comes from the table.

What the table points to

The lowest page is Name the Points (Four Quadrants) (13 of 16). That is where the next practice goes. The 8 pages left blank are not tried yet, never wrong.

Binder Cover

Slide this into the front of a binder. Type a name in the two fields or write it by hand. The divider tabs and a spine label to cut out are on the next page (page 31).

Math - Christmas and Winter

COORDINATE GRAPHING MYSTERY PICTURES



PREVIEW

Plot, Connect and Stop

Teacher _____

Class or student _____