**8th Grade Standardized Test Practice**

**Read each question. Then fill in the correct answer on the answer sheet provided by your teacher or on a sheet of paper.**

**1.** Triangle *ABC* is translated 2 units right and 2 units down. What are the coordinates of *A'*?

18

*B*

**D.** $1\frac{1}{4}$

**C.** $\frac{2}{3}$

**A.** $\frac{1}{4}$

**B.** $\frac{1}{3}$

1.2 ft

1.5 ft

3.4 ft

***x***

***O***

***y***

***x***

***O***

*C*

***y***

*N*

*M*

12

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Which scale factor was used to dilate

rectangle *M* to rectangle *N*?

**I.**

**G.**

**H.**

**F.**

Which image represents the position of

the puzzle piece after a 180° clockwise rotation?

**2.** Simplify the expression below using exponents



**F.** 

**G.** 

**H.** 

**I.** 

**3.** Rectangle *M* is similar to rectangle *N*.

**6.** Carrie rotated a puzzle piece 180°

clockwise to see if she could use it.

**A.** (0, –1)

**B.** (–3, 0) **C.** (–1, 3) **D.** (0, –3)

**GRIDDED RESPONSE** How many

square feet of wrapping paper will

Ashton need to cover the box shown?

**5.**

*A*

was transformed from Quadrant I to

Quadrant IV. What type of transformation was applied?

**SHORT RESPONSE** The figure shown

**4.**

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**9.** For the equation 3(2x – 5) = 6x + **k,** which value of k will create an equation with infinitely many solutions?

**F.** 15

**G.** -5

**H.** 5

**I.** -15

***Part C***Rotate the dilated ﬁgure 270°

clockwise around the origin. Draw the rotation.

***Part A***Translate *XYZ* 3 units left and

4 units down. Identify the coordinates
of each new vertex.

***Part B***Find the vertices of *X* *Y* *Z* after a dilation with a scale factor of $\frac{1}{2}$. Then graph the dilation.

**EXTENDED RESPONSE** Graph *XYZ*

with vertices *X*(2, 1), *Y*(7, 3), and *Z*(3, 6).

 **SHORT RESPONSE** Alfonzo drew half of a star on a coordinate plane. If the drawing was reflected across the *y*-axis, what would be the reflected location of point *B*?

**11.** Which drawing best represents a

reflection over the vertical line segment in the center of the rectangle?

**13.**

*x* = –1, *y* = –3

*x* = –1, *y* = 1

**H.**

**I.**

**F.** *x* = –1, *y* = 1

**G.** *x* = 1, *y* = 3

**10.**

**12.** What is the solution of the system of

equations below?

*y* = 2*x* – 1

*y* = 3*x*

**D.**

**GRIDDED RESPONSE** A manager took

an employee to lunch. If the lunch was

$48 and she left a 20% tip, what was the total cost in dollars of the lunch?

**8.**

**C.**

65

45

**C.**

**D.**

**A.** 180

**B.** 90

**B.**

60°

55°

**A.**

*x*°

**7.** What is the value of *x* in the triangle

shown below?

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***x***

***O***

*D*

*C*

*B*

*A* ***y***

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A

**11.**

D

C

B

A

**3.**

**10.**

I

H

G

F

**2.**

D

C

B

**9.**

A

**1.**

**Fill in the correct answer. For gridded-response questions, write your**

**answers in the boxes on the answer grid and fill in the bubbles to match your answers.**

SCORE

**Student Recording Sheet**

*Use this recording sheet with the Standardized Test Practice pages.*

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D

C

B

A

I

H

G

F

I

H

G

F

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**Extended Response**

**Record your answers for Exercise 13 on the back of this paper.**

**8.**

**7.**

**6.**

**5.**

I

H

G

F

**12.**

**4.**

D

C

B