Ant Moves
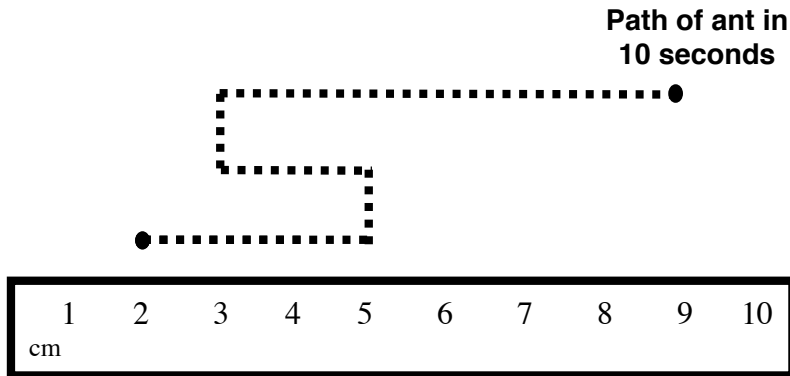
A class is studying ants. Two students decide to measure how far one ant crawls in 10 seconds. The diagram shows the ant's path.

Path of ant in 10 seconds

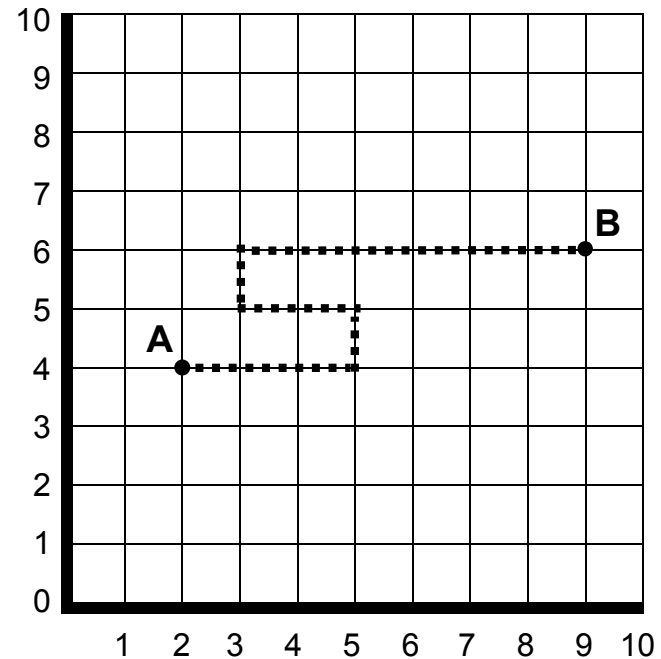How many centimeters did the ant walk in 10 seconds?

a)   7 cm

b)   9 cm

c)   13 cm

d)   15 cm

Ant Moves

A class is studying ants. The ant walks 1 unit every second from point A to B.

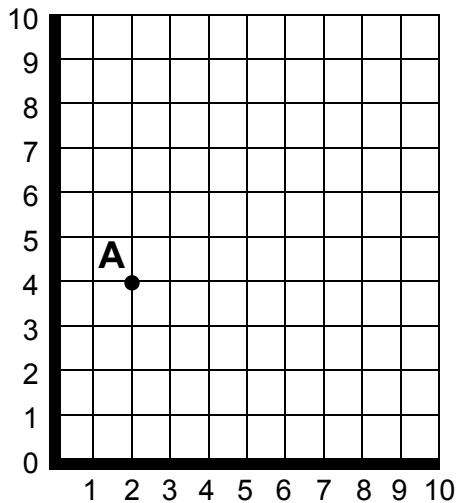What are the coordinates after the ant walked for 6 seconds?

a)   (9,6)

b)   (3,5)

c)   (4,5)

d)   (6,6)

A class is studying ants. Two students decide to measure how far one an crawls in 10 seconds. The ant walk in straight paths on the grid lines.
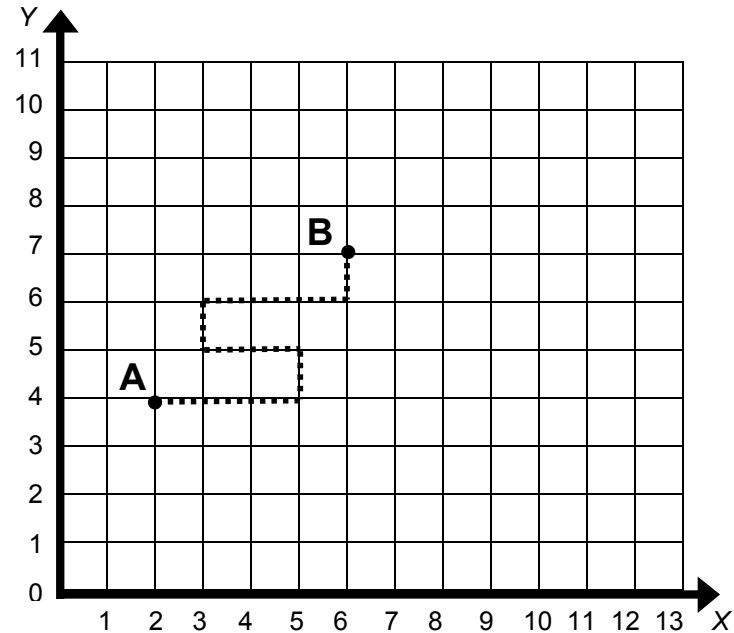

The ant started at Point A (2,4), walks right for 3 units, up 1 unit, left 2 units, up 1 unit, then right 6 units. What are the coordinates of the point the ant reaches after 10 seconds?

a)   (9,4)

b)   (6,9)

c)   (4,9)

d)   (9,6)

An ant walks from A to B in 10 seconds. It then walks from point B for another 10 seconds in the same pattern.
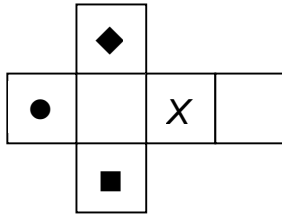

What are the coordinates after the ant walked for 20 seconds?

a)   (6,7)

b)   (10,7)

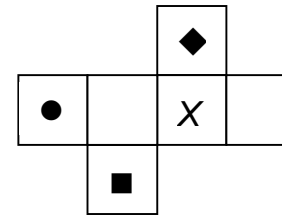c)   (10,10)

d)   (12,7)

Cube Shapes 1

The squares in the figure above represent the faces of a cube that has been cut along some edges and flattened. When the original cube was resting on face *X*, which face was on top?

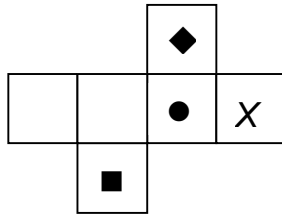a) ●

b) ◆

c) ■

d) ♥

Cube Shapes 2

The squares in the figure above represent the faces of a cube that has been cut along some edges and flattened. When the original cube was resting on face *X*, which face was on top?

a) ●

b) ◆

c) ■

d) ♥

The squares in the figure above represent the faces of a cube that has been cut along some edges and flattened. When the original cube was resting on face *X*, which face was on top?
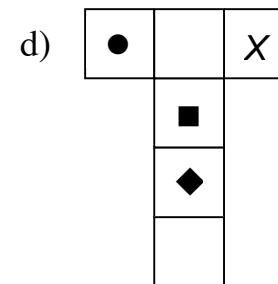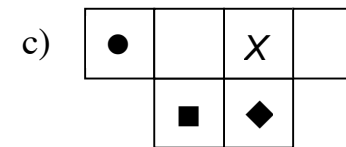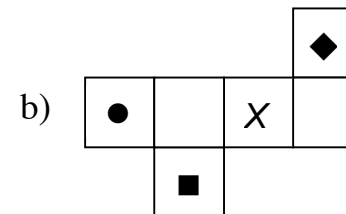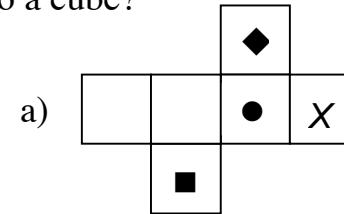
a) ●

b) ◆

c) ■

d) ♥

Which of the following could NOT be folded into a cube?

a)

b)

c)
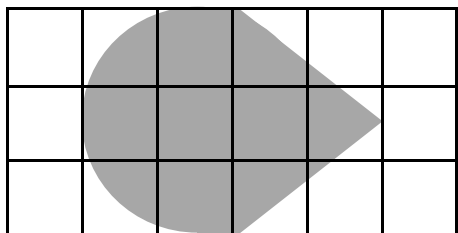
d)

Shady Shapes   1

Each small square on the grid equals 1 square unit. Estimate the area of the shaded figure.
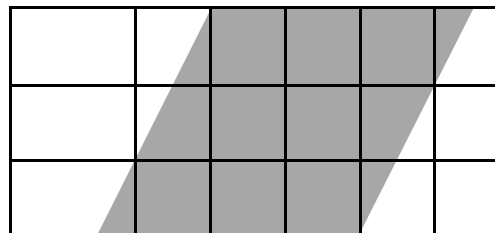

a) 6 square units

b) 8 square units

c) 10 square units

d) 12 square units

Shady Shapes   2

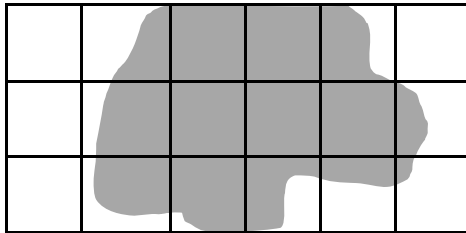Each small square on the grid equals 1 square unit. Estimate the area of the shaded figure.

a)   7 square units

b)   9 square units

c)   11 square units

d)   15 square units

Shady Shapes 3

Each small square on the grid equals 1 square unit. Estimate the area of the shaded figure.
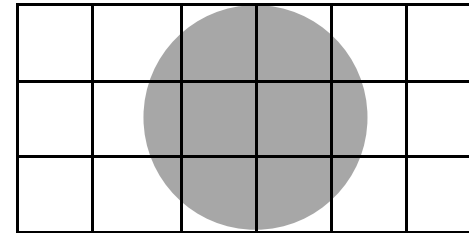

a)   6 square units

b)   7 square units

c)   9 square units

d)   12 square units

Shady Shapes 4

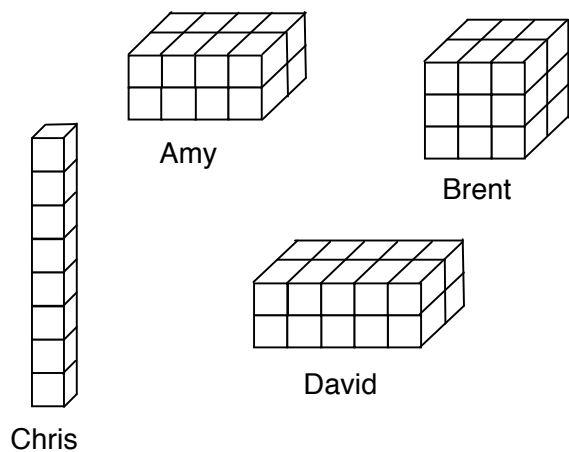Each small square on the grid equals 1 square unit. Estimate the area of the shaded figure.

a)   7 square units

b)   9 square units

c)   11 square units

d)   12 square units

Mrs. O'Keefe's kindergarten made buildings with sugar cubes. The volume of each sugar cube is 1 cubic inch. Who made the building with the **greatest** volume?
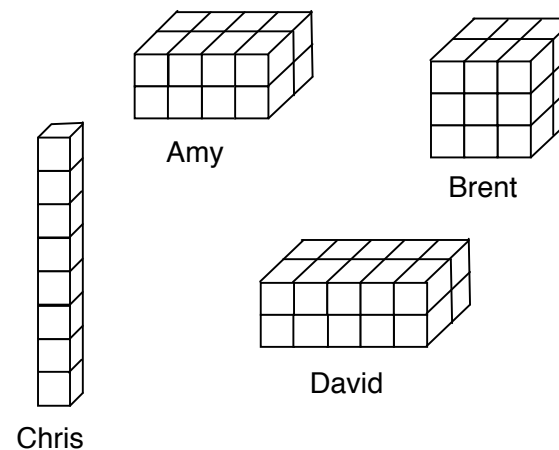
Amy

Brent

David

Chris

a) Amy

b) Brent

c) Chris

d) David

Mrs. O'Keefe's kindergarten made buildings with sugar cubes. The volume of each sugar cube is 1 cubic inch. What is the volume of Amy's building?
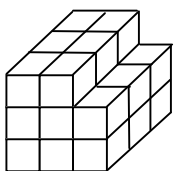
Amy

Brent

David

Chris

a) 8 cubic inches

b) 13 cubic inches

c) 16 cubic inches

d) 20 cubic inches

Sugar Cubes   3

Mrs. O'Keefe's kindergarten made buildings with sugar cubes. How many cubes did it take to make this building?
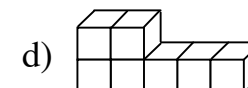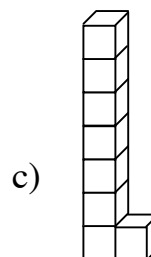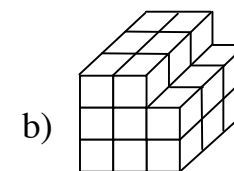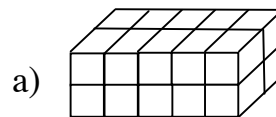
a)   16 cubes

b)   18 cubes
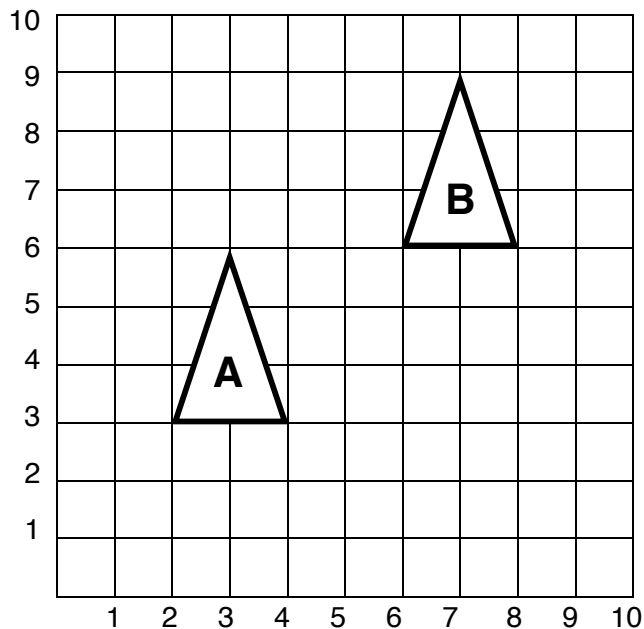
c)   24 cubes

d)   26 cubes

Sugar Cubes   4

Mrs. O'Keefe's 4th grade class was filling cubes with sugar.

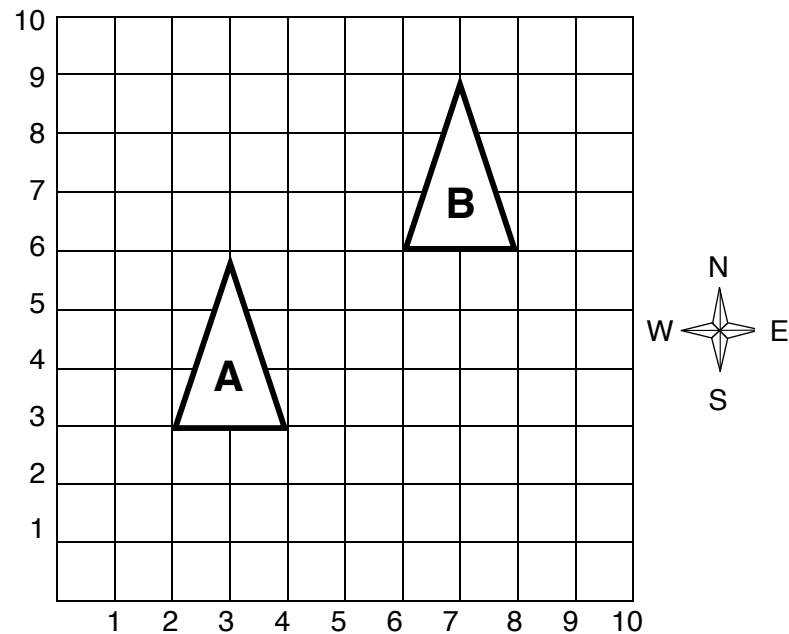Each cube holds 3 cups. Which arrangement shows a capacity of 24 cups?

a)

b)

c)

d)

Which of the following most closely describes the translation (slide) of triangle A to triangle B on the grid?

a) 1 unit to the right and 3 units up

b) 2 units to the right and 2 units up

c) 3 units to the right and 3 units up
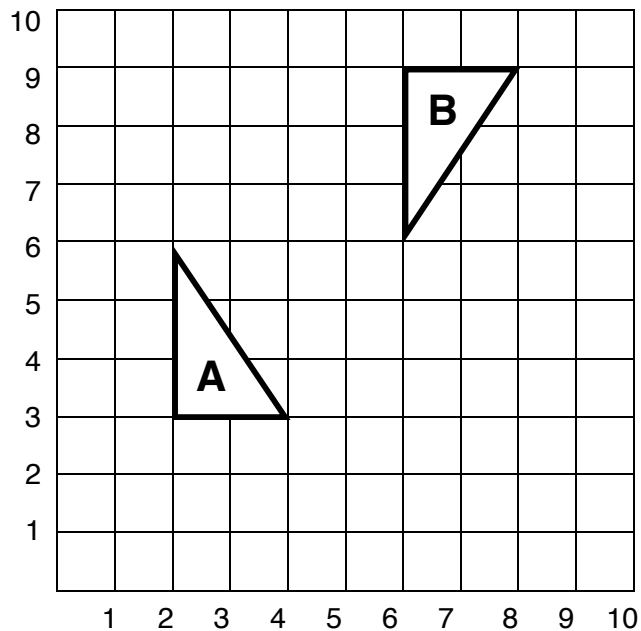
d) 4 units to the right and 3 units up

Which of the following most closely describes the translation (slide) of triangle B to triangle A on the grid?

a) 1 unit to the west and 3 units north

b) 2 units to the west and 3 units south

c) 3 units to the east and 3 units north
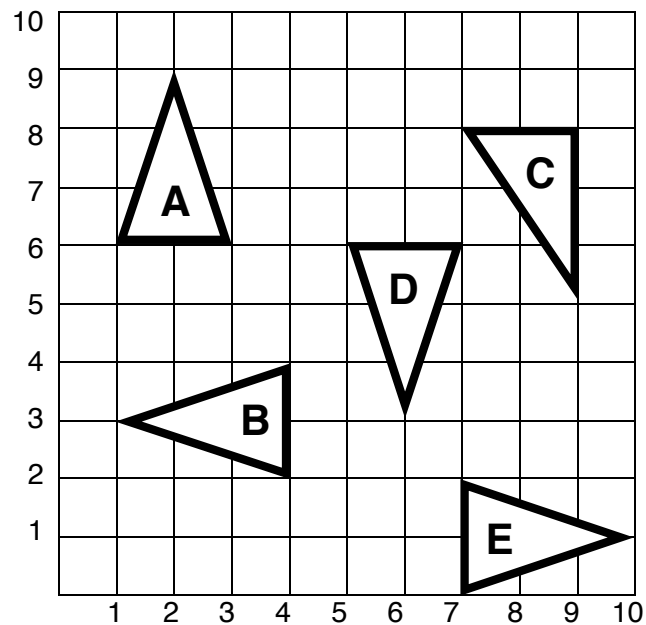
d) 4 units to the west and 3 units south

Which pair of transformations (changes) on triangle A would **NOT** result in triangle B's location on the grid?

a)   reflection (flip) and rotation (turn)

b)   reflection (flip) and translation (slide)

c)   translation (slide) and rotation (turn)

d)   translation (slide) and reflection (flip)

Which of the following triangles is **NOT** congruent to triangle A?

a)   Triangle B

b)   Triangle C

c)   Triangle D

d)   Triangle E