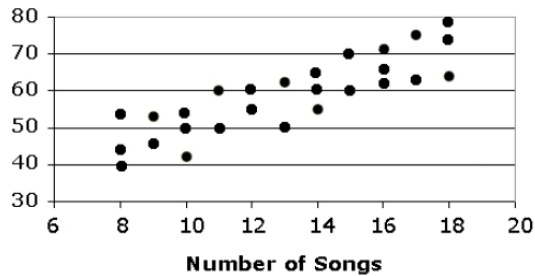# Week 2 Monday Course 3 Warm-up

What is an appropriate label for the *y* - axis or vertical axis?
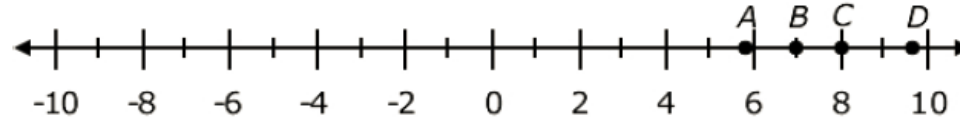
Length of Time on a CD
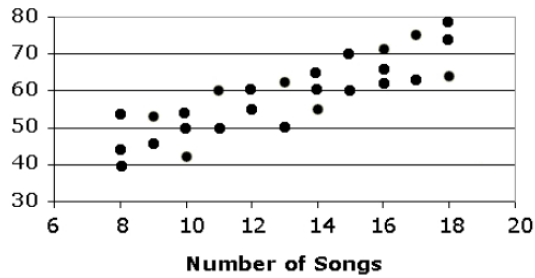
A) Number of Songs

B) Length of a Song

C) Number of Hours

D) Number of Minutes

According to the number line below, which letter best represents the location of the number?
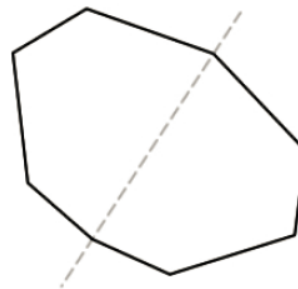
$$\sqrt{35}$$

A) *A*

B) *B*

C) *C*

D) *D*

Which of the following is equivalent to the expression below?

$$\left(6^2\right)^3$$

A) 6^1

B) 6^5

C) 6^6

D) 6^{23}

Which transformation could be used to describe the symmetry shown in this octagon?

A) dilation

B) reflection

C) rotation

D) translation

What is an appropriate label for the y - axis or vertical axis?

Length of Time on a CD

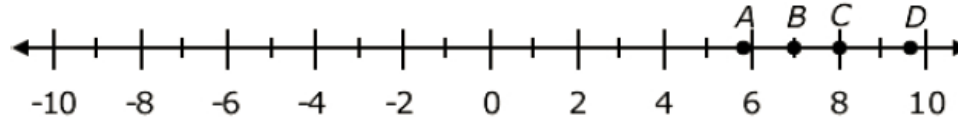**Number of Songs**

A) Number of Songs

B) Length of a Song

C) Number of Hours

✔ Number of Minutes

According to the number line below, which letter best represents the location of the number?

$$\sqrt{35}$$

✔ A

B) B

C) C

D) D

Which of the following is equivalent to the expression below?

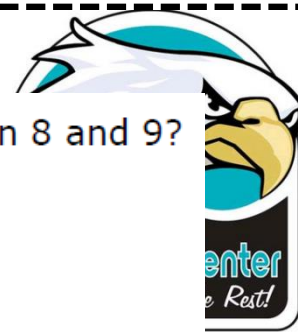$$\left(6^2\right)^3$$

A) 6^1

B) 6^5

✔ 6^6

D) 6^{23}

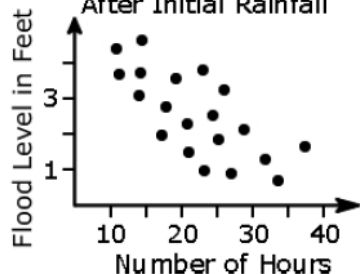Which transformation could be used to describe the symmetry shown in this octagon?

A) dilation

✔ reflection

C) rotation

D) translation

When would the flood level be most likely above 4 feet?

Flood Level vs. Number of Hours After Initial Rainfall

A) 8 hours after the initial rainfall

B) 18 hours after the initial rainfall

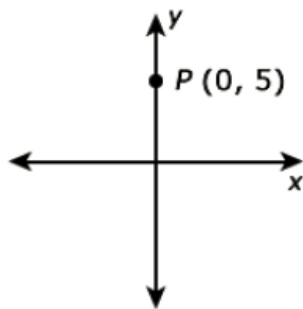C) 26 hours after the initial rainfall

D) 30 hours after the initial rainfall

$$\left(3^3\right)^3 =$$

A) 3^0

B) 3^1

C) 3^6

D) 3^9

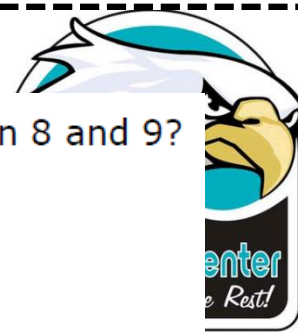The square root of which number is located between 8 and 9?

A) 18

B) 36

C) 66

D) 89

Applying a transformation to point P will result in point Q. Which of the following transformations would result in the GREATEST distance between points P and Q?
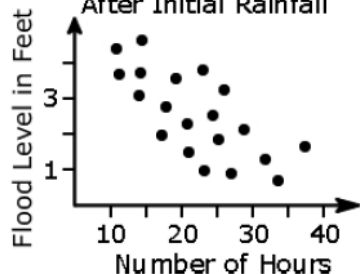

$P\,(0, 5)$

A) a 90° rotation centered at (0, 0)

B) a 180° rotation centered at (0, 0)

C) a 180° rotation centered at (0, 2.5)

D) a 270° rotation centered at (0, 2.5)

When would the flood level be most likely above 4 feet?

Flood Level vs. Number of Hours
After Initial Rainfall

✔ 3 hours after the initial rainfall

B) 18 hours after the initial rainfall

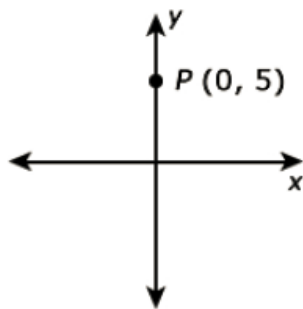C) 26 hours after the initial rainfall

D) 30 hours after the initial rainfall

$$\left(3^3\right)^3 =$$

A) 3^0

B) 3^1

C) 3^6

✔ 3^9

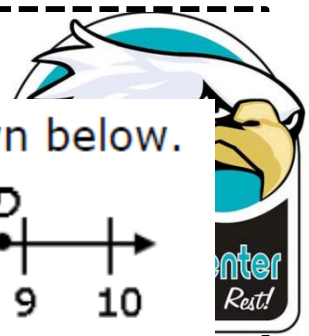The square root of which number is located between 8 and 9?

A) 18

B) 36

✔ 66

D) 89

Applying a transformation to point P will result in point Q. Which of the following transformations would result in the GREATEST distance between points P and Q?
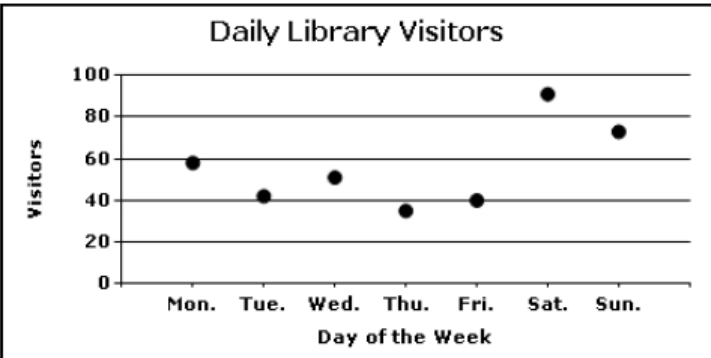
P (0, 5)

A) a 90° rotation centered at (0, 0)

✔ a 180° rotation centered at (0, 0)

C) a 180° rotation centered at (0, 2.5)

D) a 270° rotation centered at (0, 2.5)

On what day did the library have 42 visitors?

Daily Library Visitors

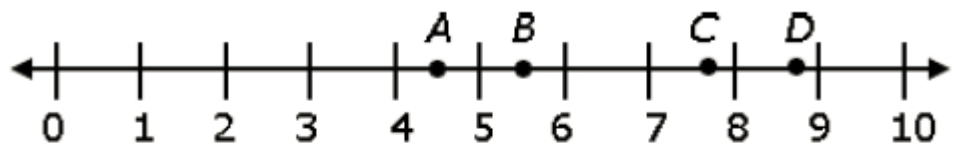(scatter plot: Visitors vs Day of the Week — Mon. through Sun.)

A) Monday

B) Tuesday

C) Thursday

D) Friday

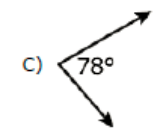$4^2 \times 4^6 =$

A) 4^3

B) 4^4

C) 4^8

D) 4^{12}

A part of the real number line is shown below.

(number line from 0 to 10 with points A, B between 4 and 6, and C, D between 8 and 9)

Which letter best represents the location of $\sqrt{60}$?

A) A

B) B

C) C

D) D

Which of the following figures can be the outcome of a rotation of the angle below?

(angle 78°)

A) (angle 39°)

B) (angle 68°)

C) (angle 78°)

D) (angle 88°)

On what day did the library have 42 visitors?

Daily Library Visitors

A) Monday

✔ Tuesday

C) Thursday

D) Friday

$4^2 \times 4^6 =$
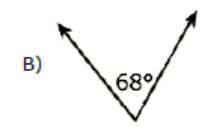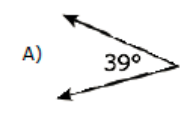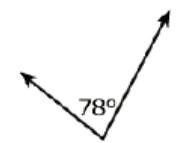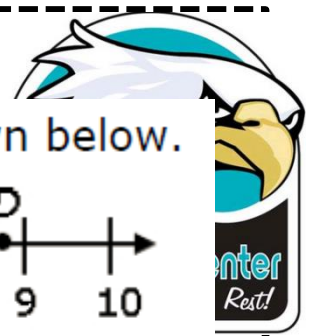
A) 4^3

B) 4^4

✔ 4^8

D) 4^{12}

A part of the real number line is shown below.

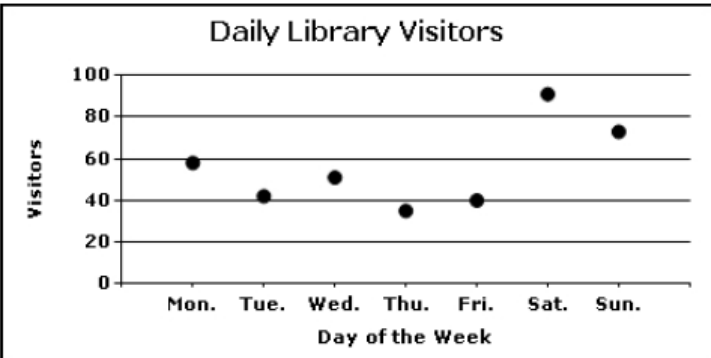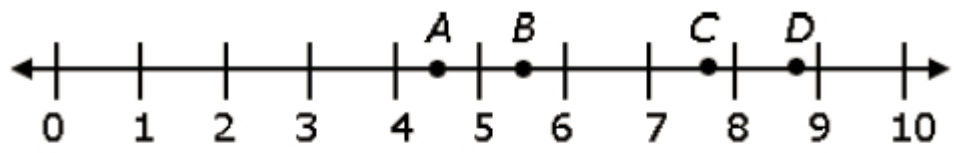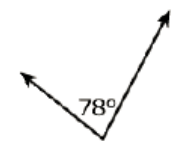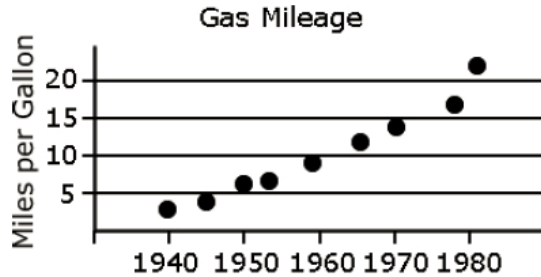Which letter best represents the location of $\sqrt{60}$?

A) A

B) B

✔ C

D) D

Which of the following figures can be the outcome of a rotation of the angle below?

78°

A) 39°

B) 68°
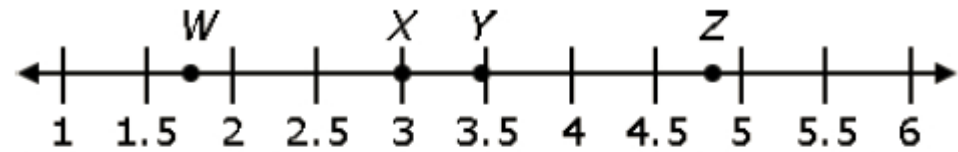
✔ 78°

D) 88°

What happened to automobile gas mileage from 1940-1980?

Gas Mileage

A) It increased.

B) It decreased.

C) It stayed the same.

D) It decreased, then increased.

Which of the following is equivalent to the expression below?

$$\frac{4^5}{4^2}$$

A) $4^{2.5}$

B) 4^3

C) 4^7

D) 4^{52}
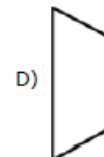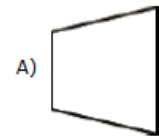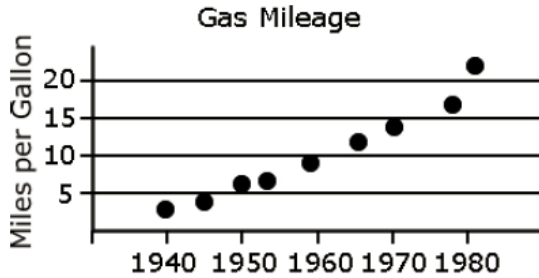
A part of the real number line is shown below.

Which letter represents the location of $\sqrt{12}$?

A) W

B) X

C) Y

D) Z

Alyssa drew a trapezoid congruent to the trapezoid below. Which figure did she draw?

A)

B)

C)

D)

What happened to automobile gas mileage from 1940-1980?

Gas Mileage

✔ It increased.

B) It decreased.

C) It stayed the same.

D) It decreased, then increased.

Which of the following is equivalent to the expression below?

$$\frac{4^5}{4^2}$$

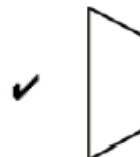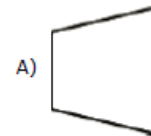A) $4^{2.5}$

✔ 4^3

C) 4^7

D) 4^{52}

A part of the real number line is shown below.

Which letter represents the location of $\sqrt{12}$?

A) W

B) X

✔ Y

D) Z

Alyssa drew a trapezoid congruent to the trapezoid below. Which figure did she draw?

A)

B)

C)

✔