

# Praxis Review - Form 3

#15

Click on your choices.

Which of the following are equal to 6 ?

Select **all** that apply.

$12 - 10 + 1 \times 2 = 4$

$8 \div (2 + 2) \times 3 = 6$

$4 \div 2 + 2 \times 2 = 6$

$(2 + 1)^2 - 2 + 1 = 8$

$16 - 5 \times 2 = 6$

# Praxis Review - Form 3

#16

Answer the question below by clicking on the correct response.

Andre has driven 98 miles, which is 35% of the total distance he must drive on his trip. How many more miles does Andre have to drive on his trip?

- 34
- 182
- 280
- 378

$$\frac{98}{T} = \frac{35}{100}$$

$$35T = 9800$$

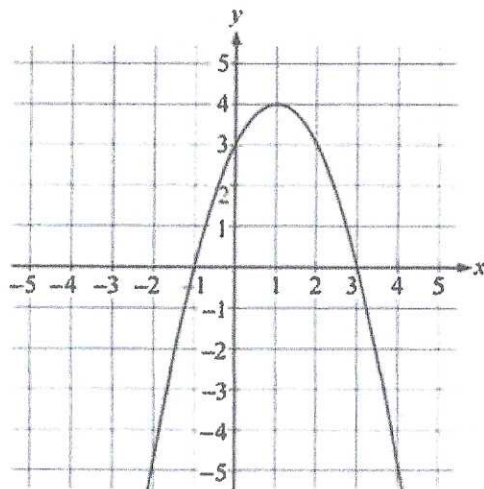
$$T = 280$$

$$280 - 98 = 182$$

# Praxis Review - Form 3

#17

Answer the question below by clicking on the correct response.



Which of the following is an equation of the graph shown in the  $xy$ -plane?

$y = x^2 - 4x + 1$

*Opens down*

$y = (x - 1)^2 - 4$

*V (1, 4)*

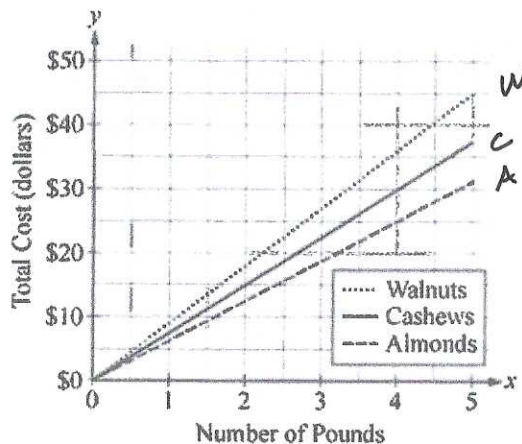
$y = -x^2 + 4x + 1$

$y = -(x - 1)^2 + 4$

# Praxis Review - Form 3

#18

Click on your choices.



The three lines graphed in the  $xy$ -plane shown model the total cost  $y$ , in dollars, for  $x$  pounds of each of three different types of nuts, where  $0 \leq x \leq 5$ . Based on the models, which of the following statements must be true?

Select **all** that apply.

- Almonds cost more per pound than walnuts or cashews do.
- Walnuts cost \$9.00 per pound.
- Almonds cost \$5.00 per pound more than cashews do.
- Walnuts cost \$1.50 per pound more than cashews do.

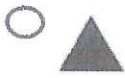
# Praxis Review - Form 3

#19

Answer the question below by clicking on the correct response.



If the pattern shown continues indefinitely, which of the following will be the 84th picture in the pattern?



Assign #15, repeats every 6

Div 84 by 6, the remainder gives the answer

$$6 \overline{) 84} \begin{array}{r} 14 \\ \end{array}$$

Remainder is 0, so #6

# Praxis Review - Form 3

#20

Answer the question below by clicking on the correct response.

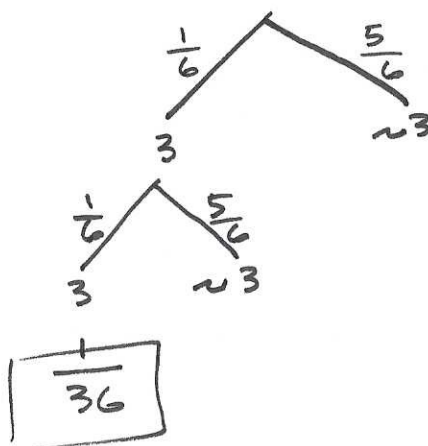
A fair number cube has each face labeled with a different integer from 1 to 6. The cube is to be rolled two times. What is the probability that the outcome of each of the first and second rolls will be a 3?

$\frac{1}{3}$

$\frac{1}{6}$

$\frac{1}{12}$

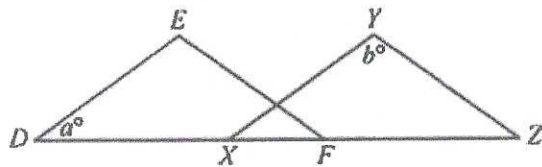
$\frac{1}{36}$



# Praxis Review - Form 3

#21

Answer the question below by clicking on the correct response.

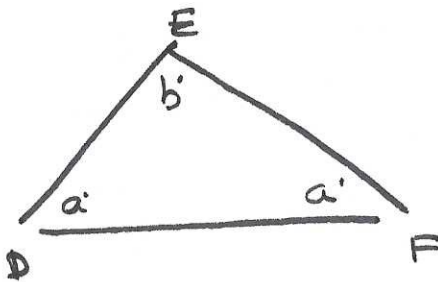


Isosceles triangle  $DEF$  is congruent to isosceles triangle  $XYZ$ , as shown in the figure. Based on the information given, which of the following is equivalent to  $b$ ?

- $90 + a$
- $180 - a$
- $180 - 2a$
- $2a$

$$\triangle DEF \cong \triangle XYZ$$

$$\therefore \angle E \cong \angle Y$$



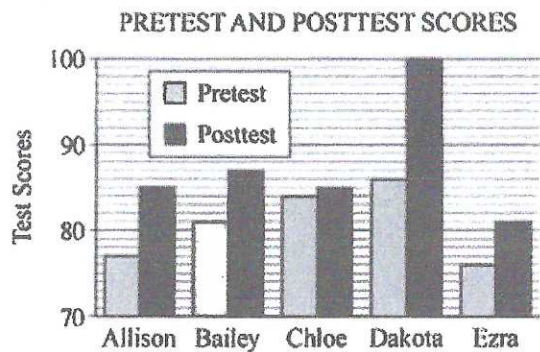
$$a + a + b = 180$$

$$b = 180 - 2a$$

# Praxis Review - Form 3

#22

Click on your choices.



The double bar graph shows the pretest and posttest scores for five students. Which of the following is a correct interpretation of the data?

Select **all** that apply.

- Ezra's posttest-score increase was lower than Bailey's posttest-score increase.
- Dakota's posttest score was more than double Ezra's posttest score.
- The student with the median pretest score also had the median posttest score.
- Four students had a posttest-score increase of at least five points.



# Praxis Review - Form 3

#23

Answer the question below by clicking on the correct response.

Maria works at a shoe store. She earns \$10 per hour plus an additional \$3 for each pair of shoes she sells. Which of the following expressions best represents the total amount of money Maria earns if she works  $x$  hours and sells  $y$  pairs of shoes?

- $30xy$
- $3x + 10y$
- $10x + 3y$
- $x + y + 13$

Shoes  $3y$   
HRS  $10x$

$$10x + 3y$$

# Praxis Review - Form 3

#24

Answer the question below by clicking on the correct response.

What is the x-intercept of the equation  $2x + 3y + 24 = 0$ ?

- 12
- 8
- 2
- 3

$$2x + 3y = -24$$

$x_{int}$  occurs when  $y=0$

$$2x = -24$$

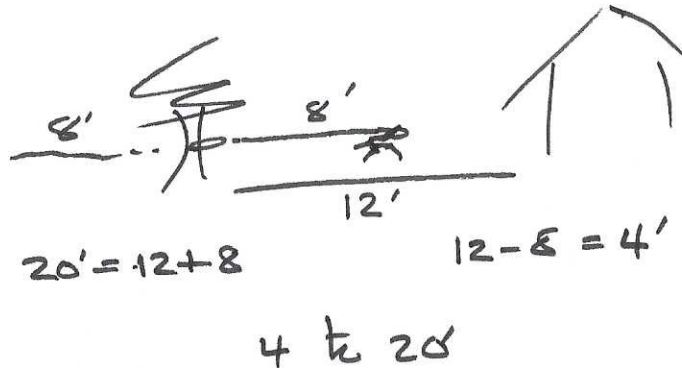
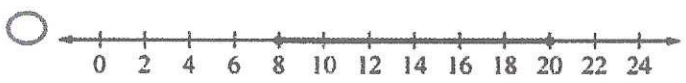
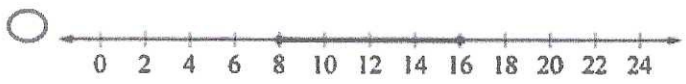
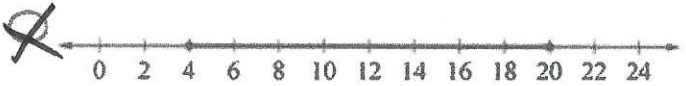
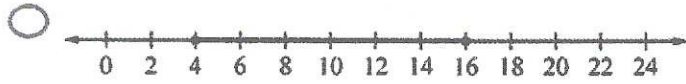
$$x = -12$$

# Praxis Review - Form 3

#25

Answer the question below by clicking on the correct response.

A tree is located 12 feet from the back door of a house, and a dog is tied to the tree with a leash that has a length of 8 feet. Which of the following number lines represents the distance that the dog can be from the back door of the house?



# Praxis Review - Form 3

#26

Answer the question below by clicking on the correct response.

The vertices of triangle XYZ are located at the points X (-3, -4), Y (-1, 2), and Z (5, -6) in the xy-plane. Which of the following points is the midpoint of YZ?

- (-2, -1)
- (1, -5)
- (2, -2)
- (4, -4)

$$\text{Mid pt (Avg)} = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$Y = (-1, 2) \quad Z = (5, -6)$$

$$\left( \frac{-1 + 5}{2}, \frac{2 + (-6)}{2} \right)$$

$$\left( \frac{4}{2}, \frac{-4}{2} \right)$$

$$(2, -2)$$

# Praxis Review - Form 3

#27

Click on your choices.

Which of the following points could be an intercept of the graph of a linear equation in the  $xy$ -plane?

Select all that apply.

$(-4, -5)$

$(0, 0)$

$(0, -5)$

$(1, 2)$

$(6, 0)$

Intercepts occur when

$x = 0$  or  $y = 0$

B, C, E

# Praxis Review - Form 3

#28

Answer the question below by clicking on the correct response.

A scale model of a backyard is 4 inches long and 2 inches wide. If the actual backyard is 12 feet wide, how many feet of chain link fencing is required to enclose the entire backyard?

36

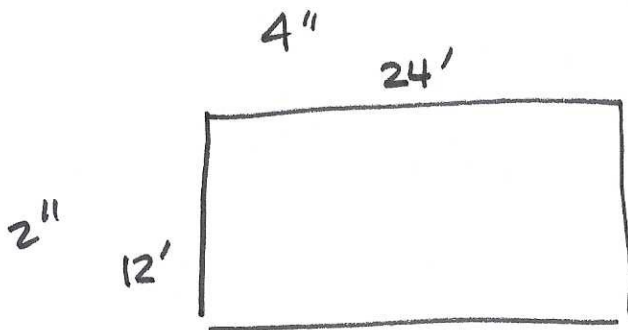
48

72

96

$$\frac{2''}{12'} = \frac{4''}{24'}$$

$$\begin{aligned} P &= 2L + 2W \\ &= 2(12) + 2(24) \\ &= 24 + 48 \\ &= 72 \end{aligned}$$



# Praxis Review - Form 3

#29

Answer the question below by clicking on the correct response.

During basketball practice, Courtney made 84 of the first 100 free throws she attempted. If she missed the next 2 free throws she attempted, how many consecutive free throws would Courtney need to make to raise the percent of free throws she made to 88 percent?

6

34

48

92

$$\frac{84 - 2 + x}{100 + x} = \frac{88}{100}$$

$$\frac{82 + x}{100 + x} = \frac{88}{100}$$

$$8200 + 100x = 8800 + 88x$$

$$12x = 600$$

$$x = 50$$

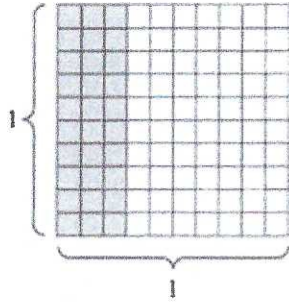
$$-2 + x$$

$$-2 + 50 = 48$$

# Praxis Review - Form 3

#30

Click on your choices.



Which of the following values can be represented by the area model shown?

Select all that apply.

0.3%

3%

30%

$\frac{0.3}{10}$

$\frac{3}{10}$

$\frac{30}{10}$