Praxis Review - Form 2
\#1

Answer the question below by clicking on the correct response.
The population of Country $X$ is 0.36 billion persons, and the population of Country $Z$ is 12 million persons. The population of Country $X$ is how many times that of Country $Z$ ?300300.30.03

$$
\begin{aligned}
.36 \times 10^{9} & =3.6 \times 10^{8} \\
12 \times 10^{6} & =1.2 \times 10^{7} \\
\frac{3.6 \times 10^{8}}{1.2 \times 10^{7}} & =3 \times 10^{1} \\
& =30
\end{aligned}
$$

Praxis Review - Form 2
\#2

Click on the answer box and type in a number. Backspace to erase.
A rectangular lawn is 40 feet wide and 65 feet long. If a bag of fertilizer covers 10.400 square feet, what is the maximum number of times the lawn can be completely fertilized using a single bag of fertilizer?



$$
\begin{aligned}
A & =l \omega \\
& =65.40 \\
& =2600 \mathrm{ss}
\end{aligned}
$$

$$
\begin{aligned}
& 2600 \sqrt{10,400} \\
& 20 \sqrt{104} \\
& 4 \text { times }
\end{aligned}
$$

## Praxis Review - Form 2

## Answer the question below by clicking on the correct response.

Marta has $\$ 88$ in a jar. If she adds $\$ 6$ each week to the money arready in the jar without withdrawing any money, in how many weeks will she have a total of $\$ 142$ in the jar?
78
9
10

$$
\begin{aligned}
& 142=88+6 w \\
& 54=6 w
\end{aligned}
$$

$$
g=w
$$

## Praxis Review - Form 2

## Answer the question below by clicking on the correct response.

DISTANCE BETWEEN CITIES
(in miles)

|  | Boston | Dallas | Denver | Omaha | Seattle |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Boston | - | 1,753 | 1,998 | 1,469 | 3,016 |
| Dallas | 1,753 | - | 784 | 662 | 2,131 |
| Denver | 1,998 | 784 | - | 541 | 1,341 |
| Omaha | 1,469 | 662 | 541 | - | 1,692 |
| Seattle | 3,016 | 2,131 | 1,341 | 1,692 | - |

The table shows the distances between selected cities. Joni will travel directly from Boston to Seattle. Gery will travel from Boston to Denver and then from Denver to Seatle. How many more miles will Gery travel than Joni?

○ 3236571,0181,341

Praxis Review - Form 2
\#5

Click on each box and type in a number. Backspace to erase.
In a collection of writing utensils consisting of pens and pencils, $64 \%$ of the writing utensils are pens. What is the ratio of pens to pencils in the collection?
Give your answer as a fraction.

$$
\begin{array}{r}
64 \% \text { pens } \therefore 36 \% \text { pencel } \\
\frac{\square}{\text { pencil }} ; \frac{64}{36}=\frac{16}{9} \\
16 \text { tog }
\end{array}
$$

Praxis Review - Form 2
\#6
Answer the question below by clicking on the correct response.
Which of the following represents the $x$-intercept and the $y$-intercept of the graph of the equation $3 x-4 y=12$ in the $x y$-plane?$(-4,0)$ and $(0,3)$$(-3,0)$ and $(0,4)$$(3,0)$ and $(0,-4)$
Q $(4.0)$ and $(0,-3)$

$$
\begin{aligned}
3 x-4 y & =12 \\
y_{n t} & =-3 \quad(2,-3) \\
x_{n t} & =4 \quad(4,0)
\end{aligned}
$$

Praxis Review - Form 2
\#7

Answer the question below by clicking on the correct response.


On line segment $P S$ shown, point $X$, not shown, is the midpoint of segment $P R$, and point $Y$, not shown, is the midpoint of segment $R S$. Which of the following line segments has the greatest length?
$\otimes$ QrQRKY$X R$

$$
\begin{aligned}
& x \\
& \text { if } P R=7, ~+h=P
\end{aligned}
$$

Praxis Review - Form 2
\#8

Answer the question below by clicking on the correct response.
BOSTON BROWN BREAD

| $2 \frac{1}{2}$ cups whole-wheat flour | 2 teaspoons baking soda |
| :--- | :--- |
| $1 \frac{1}{4}$ cups rye flour | 2 cups buttermilk |
| 1 cup cornmeal | $\frac{3}{4}$ cup molasses |
| $2 \frac{1}{2}$ teaspoons baking powder | $1 \frac{2}{3}$ cups raisins |
| $1 \frac{1}{4}$ teaspoons salt |  |

The recipe shown makes 2 loaves of Boston brown bread. If $2 \frac{1}{4}$ cups of molasses are used and all other ingredients are increased proportionally, how many loaves of Boston brown bread will be made?
3
4

$$
2 \frac{1}{4} \text { cps mol. }=\frac{9}{4}
$$5

6

$$
\frac{3}{4} \text { copt mol }
$$

$$
\begin{aligned}
& 21 / 4 \div 3 / 4 \\
& 9 / 4 \div 3 / 4 \\
& 9 / 4 \times 4 / 3=9 / 3 \text { ? }
\end{aligned}
$$

3 Bread

Praxis Review - Form 2
\#9

Click on each box and type in a number. Backspace to erase.
When the linear equation $2 x-5 y=-20$ is graphed in the $x y$-plane, what is the slope of the line?
Give your answer as a fraction.

$$
A x+B y=C \begin{aligned}
& A x-5 y=-20 \quad M=\frac{-A}{B} \\
& O R
\end{aligned}
$$

Solve for $y$

$$
\begin{array}{ll}
2 x-5 y=-20 \\
2 x+20 & =5 y \\
\frac{2}{5} x+4 & =y
\end{array} \quad y=m x+b
$$

Praxis Review - Form 2
\#10

Answer the question below by clicking on the correct response.
For inventory purposes, a manufacturing company assigns a 3 -character code to each different item produced. The first character of the code must be a letter from the 26 -letter English alphabet. The second and third characters must each be a digit from 0 to 9 , but the digit cannot be repeated. How many different 3 -character codes can be assigned?720

use FCP2.3402,60015,600

Praxis Review - Form 2
\#11

Click on your choices.
Which of the following equations demonstrate the associative property of addition or the associative property of multiplication?

Select all that apply.$v+2=2+v \quad C P$$4(w+1)=4 w+4 \quad$ DR
$\square(2+x)+5=2+(x+5)$$w y=w w \quad C R$
$\mathbb{Z} \times(y z)=(x y) z \quad A$

Assoc- Changes grouping

$$
(a+b)+c=a+(b+c)
$$

## Praxis Review - Form 2

## Answer the question below by clicking on the correct response.

$$
\frac{1}{2} n(n-3)
$$

The expression shown gives the number of diagonals in a polygon with $n$ sides, where $n$ is an integer. Which of the following expressions is equivalent to the expression shown?

$$
\begin{aligned}
& \frac{n^{2}}{2}+3 \\
& \frac{n^{2}}{2}-3 \\
& \frac{n^{2}}{2}+\frac{3 n}{2} \\
& \frac{n^{2}}{2}-\frac{3 n}{2}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{1}{2} n(n-3) \\
& =\frac{1}{2} n^{2}-\frac{3 n}{2} \\
& =\frac{n^{2}}{2}-\frac{3 n}{2}
\end{aligned}
$$

Praxis Review - Form 2
\#13

Click on your choices.
Which of the following pairs of fractions are equivalent?
Select all that apply.
$\square \frac{3}{5}$ and $\frac{9}{25}$
$\square \frac{5}{6}$ and $\frac{11}{12}$
$\frac{4}{7}$ and $\frac{24}{42}$
$\square \frac{5}{8}$ and $\frac{13}{20}$
(x) $\frac{8}{12}$ and $\frac{14}{21}$

(168) $168 \quad a d=b c$


## Praxis Review - Form 2

\#14

## Answer the question below by clicking on the correct response.



Based on the information in the right triangle shown, which of the following expressions is equivalent to $x$ ?

$$
\begin{aligned}
& Q_{w-4} \\
& 0 \sqrt{w^{2}-16} \\
& 0 \sqrt{w^{2}+16} C^{2}=a^{2}+b^{2} \\
& w^{2}-16 \\
& \sqrt[w^{2}]{ }=16
\end{aligned}
$$

Praxis Review - Form 2
\#15

Click on your choices.
Which of the following sets of ordered pairs ( $x, y$ ) define $y$ as a function of $x$ ?
Select all that apply.

G $\{(1,3),(2,3),(3,5),(4,5)\}$
$\{(2,1),(3,2),(4,3),(5,4)\}$
$\square\{(3,1),(3,2),(5,3),(5,4)\}$

Fat for every $x$, there us exact 1 y

In other wads, $x$ can not repeat with a differently

