College Board

## Sample Questions

## Directions for questions 1-20

For each of the questions below, choose the best answer from the four choices given.

1. If there are 2.2 pounds in 1 kilogram, how many pounds are there in $x$ kilograms? [basic]
A. X
B. $2.2 x$
C. $2.2+x$
D. $\overline{\mathrm{x}}$
2. 


e bar graph above shows the number of customers who shopped at a store Monday through ursday of one week. If the number of customers on Friday was a one- h increauf cusf cuAu,f.0n er of cuomers os

e formula for the volume of the right circular cylinder shown is $V \quad \pi r \quad h$.

If $r$
16. Reyna has 5 coins worth 10 cents each and 4 coins worth 25 cents each. If she chooses two of these coins

## Answer Key

1. B
2. 
3. D
4. C
5. B
6. B
7. B
8. B
9. D
10. C
11. B
12. 
13. D
14. D
15. C
16. C
17. 
18. B
19. D
20. D
21. Choice $C$ is the correct answer.
$y=m x-4$ is $m$
$x y$ plane is in
$x$

$$
\begin{aligned}
& y=x-4 \text { is } 1 \\
& y=x-4
\end{aligned} m<1
$$

11. Choice $B$ is the correct answer.
averaged 91

$$
\begin{align*}
& 12 \\
& 12 \times 77=924
\end{align*} \quad 9^{77}
$$

$$
12+9=21
$$

$$
9 \times 91=819
$$

$$
924+819=1743
$$

$$
1743 \div 21=83
$$

12. Choice $\mathbf{A}$ is the correct answer.

$$
(3 x-12)(x+4)
$$

$3(x-4)(x+4)=3\left(x^{2}-16\right)$
$3 x^{2}-48 \quad 3\left(x^{2}-16\right)$ and $3 x^{2}$
18. Choice $B$ is the correct answer.
A -bh
$-x \quad x \quad x \quad x$

$$
x^{2}+x-42=0
$$

$x=6$
19. C hoice $D$ is the correct answer.

20.

