GRE Arithmetic Practice Paper 5
Question 1
If j and k are positive numbers, what percent of $(\mathrm{j} 3+4)$ is $k$ ?

1. $k(j 3+4) \%$
2. $100 \mathrm{kj} 3+4 \%$
3. $\mathrm{j} 3+4 \mathrm{k} \%$
4. $\mathrm{kj} 3+4 \%$
5. j3 $+4100 k \%$

## Question 2

What is the least common multiple of 350 and 6270 ?
Possible Answers:
None of the other answers
109,725
219,450
$1,097,250$
$2,194,500$

## Question 3

## Find the greatest common factor of 16 and 24.

Possible Answers:

2

4

8

16

## Question 4

Working alone at its constant rate, machine $A$ produces $k$ liters of a chemical in 10 minutes. Working alone at its constant rate, machine $B$ produces $k$ liters of the chemical in 15 minutes. How many minutes does it take machines $A$ and $B$, working simultaneously at their respective constant rates, to produce $k$ liters of the chemical?

## Question 5

What is the greatest common factor of 18 and 24 ?

Possible Answers:

24

6

9

18

3

## Question 6

What is the greatest common factor of 6930 and 288 ?

Possible Answers:

288

18

9

1995840

110880

## Question 7

If the ratio of the ages of two friends $A$ and $B$ is $3: 5$ and that of $B$ and $C$ is $3: 5$ and the sum of the ages of all 3 friends is 147 , how old is B ?
A. 15 years
B. 75 years
C. 49 years
D. 45 years
E. 27 years

## Question 8

$A$ and $B$ together complete a work in 4 days, $B$ and $C$ together in 6 days, $C$ and A together in 5 days. Working independently, who will finish the work in the least time and in how many days?
A. A, $\frac{120}{7}$ days
B. A, $\frac{120}{17}$ days
C. $\mathrm{B}, \frac{120}{13}$ days
D. $B, \frac{120}{17}$ days
E. C, $\frac{120}{7}$ days

## Question 9

Convert $0.2512(12)$ to a fraction

## Question 10

Which of the following is a prime number?

Possible Answers:

9

51

71

15

6

Question 11

If $x$ is a prime number, then $3 x$ is

| Possible Answers: |
| :--- |
| even |
| odd |
| cannot be determined |
| a prime number |
| divisible by 4 |

## Question 12

Which of the following pairs of numbers are twin primes?

Possible Answers:
1.2

13, 19

2,3

1. 3
3.5

Question 13

The water level in a tank is lowered by 6 inches, then raised by $8 \frac{1}{2}$ inches, and then lowered by 4 inches.

If the water level was $x$ inches before the changes in level, which of the following represents the water level, in inches, after the changes?
(A) $x-1 \frac{1}{2}$
(B) $x+1 \frac{1}{2}$
(C) $x-6 \frac{1}{2}$
(D) $x+6 \frac{1}{2}$
(E) $x-18 \frac{1}{2}$

## Question 14

Which of the following sets of number is has the greatest standard deviation?
(A) $2,3,4$
(B) $2.5,3,3.5$
(C) $1,1.25,1.5$
(D) $-2,0,2$
(E) $20,21,21.5$

## Question 15

. If the radius of a circular region were decreased by
20 percent, the area of the circular region would decrease by what percent?
(A) $16 \%$
(B) $20 \%$
(C) $36 \%$
(D) $40 \%$
(E) $44 \%$

If revenues $\$ 196,000$ from division A of Company
X represent 28 percent of the total revenues of
Company $X$ for the year, What ware the total revenues of Company X for the year?
(A) $\$ 141,100$
(B) $\$ 272,000$
(C) $\$ 413,300$
(D) $\$ 596,100$
(E) $\$ 700,000$

## Question 17

The savings rate for Canada was approximately
how many times that of the United States?
(A) $1 \frac{1}{2}$
(B) 2
(C) $2 \frac{1}{2}$
(D) 3
(E) $3 \frac{1}{2}$

## Question 18

$$
\left(\frac{x}{y}\right)^{3}\left(\frac{2 y}{x}\right)^{4} ?
$$

(A) $2 x y$
(B) $8 x y^{2}$
(C) $16 x^{2} y^{3}$
(D) $\frac{2 y}{x}$
(E) $\frac{16 y}{x}$

## Question 19

A certain doctor suggests that an individual's daily water intake be $\frac{1}{2}$ ounce per pound of body weight plus 8 ounces for every 25 pounds by which the individual exceeds his or her ideal weight. If this doctor suggests a daily water intake of 136 ounces for a particular 240-pound individual, how many pounds above his or her ideal weight is that individual?
(A) $12 \frac{1}{2}$
(B) 16
(C) 30
(D) 50
(E) 120

## Question 20

In a group of 80 students, 24 are enrolled in geometry, 40 in biology, and 20 in both. If a student were randomly selected from the 80 students, what is the probability that the student selected would not be enrolled in either course?
(A) 0.20
(B) 0.25
(C) 0.45
(D) 0.55
(E) 0.60

