

GRE Quant Practice Test 3

Arithmetic

1)

From 2010 to 2011, the population of a country had increased by 5%. If the population of the same country had increased by a percent value between 8% and 11% from 2010 to 2012, which of the following could be the percent increase in population of the country from 2011 to 2012?

Indicate all such values.

[Note: Select one or more answer choices]

- A 2%
- B 3%
- C 4%
- D 5%
- E 6%

2) If $2a=3b=6c$, which of the following ratios is an integer?

Indicate all such ratios.

[Note: Select one or more answer choices]

- A $\frac{ab}{c^2}$
- B $\frac{ac}{b^2}$
- C $\frac{bc}{a^2}$
- D $\frac{a}{c}$

3) A sequence is defined by the rule, $t_1=3$, $t_2=2$, and for $n \geq 3$, $t_n=t_{n-1}+2t_{n-2}$. What is the value of t_5 ?

- (A) 6
- (B) 5
- (C) 8
- (D) 12
- (E) 28

4) Stacy needs to drive 75 miles on a highway with a speed limit of 65 mph. If she starts at 3:00pm, and drives the speed limit, at what time can she expect to arrive at her destination?

- (A) 3:56
- (B) 4:03
- (C) 4:07
- (D) 4:09
- (E) 4:13

5) N is a positive real number.

Quantity A	Quantity B
The result of a 20% increase of N , followed by a 20% decrease.	N

6. Which of the integers 2, 9, 19, 29, 30, 37, 45, 49, 51, 83, 90, and 91 are prime numbers?

7. What is the prime factorization of 585 ?

8. Which of the following statements are true?

- a. negative 5 is less than 3.1
- b. the positive square root of $16 = 4$
- c. 7 divided by $0 = 0$

