

GRE Quantitative Practice Test 2

Question 1

In triangle ABC , the measure of angle A is 25° and the measure of angle B is greater than 90° . Which of the following could be the measure of angle C ?

Indicate all possible values.

- ☐ A 12°
- ☐ B 15°
- ☐ C 45°
- ☐ D 50°
- ☐ E 70°

Question 2

What is the least integer n such that $\frac{1}{2^n} < 0.001$?

- ☐ A 10
- ☐ B 11
- ☐ C 500
- ☐ D 501
- ☐ E There is no such least value.

Question 3

In the sunshine, an upright pole 12 feet tall is casting a shadow 8 feet long. At the same time, a nearby upright pole is casting a shadow 10 feet long. If the lengths of the shadows are proportional to the heights of the poles, what is the height, in feet, of the taller pole?

- (A) 10
- (B) 12
- (C) 14
- (D) 15
- (E) 18

Question 4

If a is the smallest prime number greater than 21 and b is the largest prime number less than 16, then $ab =$

- (A) 299
- (B) 323
- (C) 330
- (D) 345
- (E) 351

Question 5

The total amount of Judy's water bill for the last quarter of the year was \$40.50. The bill consisted of a fixed charge of \$13.50 plus a charge of \$0.0075 per gallon for the water used in the quarter. For how many gallons of water was Judy charged for the quarter?

								gallons
—	.	.	.	.	.	.	.	
	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	
	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	
	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	
	8	8	8	8	8	8	8	
	9	9	9	9	9	9	9	

Question 6

The median of the numbers in list R is how much greater than the median of the numbers in list S ?

- (A) 8
- (B) 10
- (C) 12
- (D) 13
- (E) 15

Question 7

The two corporate sectors that increased their support for the arts from 1988 to 1991 made a total contribution in 1991 of approximately how many million dollars?

Give your answer to the **nearest 10 million dollars.**

								million dollars
—	.	.	.	.	.	.	.	
	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	
	4	4	4	4	4	4	4	
	5	5	5	5	5	5	5	
	6	6	6	6	6	6	6	
	7	7	7	7	7	7	7	
	8	8	8	8	8	8	8	
	9	9	9	9	9	9	9	

Question 8

How many of the six corporate sectors listed each contributed more than \$60 million to the arts in both 1988 and 1991 ?

- ☐ A One
- ☐ B Two
- ☐ C Three
- ☐ D Four
- ☐ E Five

Question 9

From 1988 to 1991, which corporate sector decreased its support for the arts by the greatest dollar amount?

- ☐ A Services
- ☐ B Manufacturing
- ☐ C Retail
- ☐ D Wholesale
- ☐ E Other

Question 10

Of the retail sector's 1991 contribution to the arts, $\frac{1}{4}$ went to symphony orchestras and $\frac{1}{2}$ of the remainder went to public television. Approximately how many million dollars more did the retail sector contribute to public television that year than to symphony orchestras?

- (A) 5.2
- (B) 6.3
- (C) 10.4
- (D) 13.0
- (E) 19.5