Section II – Math

1. 8327 – 1278 =

a. 7149

b. 7209

c. 6059

d. 7049

2. 294 X 21 =

1. 6017
2. 6174
3. 6728
4. 5679

3. 1278 + 4920 =

a. 6298

b. 6108

c. 6198

d. 6098

4. 285 * 12 =

a. 3420

b. 3402

c. 3024

d. 2322

5. 4120 – 3216 =

a. 903

b. 804

c. 904

d. 1904

6. 2417 + 1004 =

a. 3401

b. 4321

c. 3402

d. 3421

7. 1440 ÷ 12 =

a. 122

b. 120

c. 110

d. 132

8. 2713 – 1308 =

a. 1450

b. 1445

c. 1405

d. 1455

9. It is known that x2+4x=5. Then x can be

a. 0

b. -5

c. 1

d. Either (b) or (c)

10. (a+b)2 = 4ab. What is necessarily correct?

a. a > b

b. a < b

c. a = b

d. None of the Above

11. The sum of the digits of a 2-digit number is 12. If we switch the digits, the number we get will be greater than the initial one by 36. Find the initial number.

a. 39

b. 48

c. 57

d. 75

12. Two friends traveled to a nearby city. In the second day they travelled 75 miles more than the first day, and in the third day, they travelled a third of the distance covered in the second day. How many miles did they cover in the first day, if the total travelled was 170 miles?

a. 30 miles

b. 35 miles

c. 105 miles

d. 135 miles

13. Kate's father is 32 years older than Kate is. In 5 years, he will be five times older. How old is Kate?

a. 2

b. 3

c. 5

d. 6

14. If Lynn can type a page in p minutes, what portion of the page can she do in 5 minutes?

a. 5/p

b. p - 5

c. p + 5

d. p/5

15. If Sally can paint a house in 4 hours, and John can paint the same house in 6 hours, how long will it take for both of them to paint the house together?

a. 2 hours and 24 minutes

b. 3 hours and 12 minutes

c. 3 hours and 44 minutes

d. 4 hours and 10 minutes

16. Employees of a discount appliance store receive an additional 20% off the lowest price on any item. If an employee purchases a dishwasher during a 15% off sale, how much will he pay if the dishwasher originally cost $450?

a. $280.90