***Answers for Sample Math Entrance exam 2022***

1. A) HFC is 23 \* 3=24

LCM is 24\*32 =144

b) HFC is 22 \* 3=12

LCM is 23 \* 3 =24

c) HFC is 22 \* 3=12

LCM is 23 \* 32 =72

d) HFC is 2\*5=10

LCM is 22 \* 3 \* 52 \*11=3300

1. Answer is 2.
2. A) -243

b) 1/8

c) 0.16

d) 1/625

4. a) x10

b) y11

c) c

d) d15

5. a) x6

b) x30

c) x84

d) x130

6. x2

7. 15a3 – 18a2 + 4a

8. (- 4; -5)

9. (- 3; 0,5)

10. 2/9

11. (x+5)(x-1)

12. a2 + 2ab – b2

13. x1=1 x2=4/3

14. 6

15. 2

16. $80

17. 0.07

18. 19.2

19. $275

20. Truck 4

21. 2

22. **Tatami**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1** | **3** | **1** | **2** | **3** | **2** |
| **2** | **1** | **2** | **3** | **1** | **3** |
| **3** | **2** | **3** | **1** | **2** | **1** |
| **2** | **3** | **1** | **3** | **1** | **2** |
| **3** | **1** | **2** | **1** | **2** | **3** |
| **1** | **2** | **3** | **2** | **3** | **1** |

23. 46

24. 11.8

25. 73

26. 5,4,2

27. B

28. D

29. C

30. 6+9=15