***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$\sqrt{2}$

 22. **Tatami**

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| --- | --- | --- | --- | --- | --- |
| **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