Keys: Grade 3, IMO Level 1 Demo Test

Grade : 3
Time : 1 Hr
Answer Sheet

1. D - D

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2. B - Wednesday

3rd day from Monday = Thursday
so tomorrow is Thursday and hence today is Wednesday

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3. B - 4

Sum of all the numbers in each figure is equal to 17

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4. D - 54

The sequence can be broken into two sequence as below:
2, 2x3, 2x3x3, ? (odd placed numbers)
5, 5x2, 5x2x2,5x2x2x2 (even placed numbers)
Hence answer will be next term of first sequence and is equal to 2x3x3x3 = 54

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5. B - 64053

TODAY = 29643; T = 2, O = 9, D = 6, A = 4, Y = 3;
FIRST = 10578; F = 1, I = 0, R = 5, S = 7, T = 8;
Hence DAIRY = 64053

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6. C - TUESDAY

Weekly holiday is SUNDAY which is called as TUESDAY

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7. A - 4th

The new series will be B,C,D,F----Hence position of F will be 4th

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8. B - 11

1st figure = 2 circles
2nd figure = 3 circles
3rd figure = 4 circles
.
.
10th figure = 11 circles

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9. C - c

The second image of figure I is rotated by 45 degree and colour changes to red from blue.
If same relationship is applicable for figure II, the solution will be again a circle (circle rotated by 45 degree is again a circle) with red colour.

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10. C - c

All figures consists of one circle and one square except option c which have got 2 circles and one square.

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11. A - A

Cone has 1 flat surface which is a circle and 1 curved surface.

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12. C - C

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13. A - 13872

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14. B - 5830 meters

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15. A - 9

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16. B - 45

Greatest sale was on Sunday = 30.
Sale on Monday 15.
Sum 15 + 30 = 45.

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17. A - 20

Greatest sales day = 30.
Least sales day = 10.
Difference = 30 - 10 = 20.

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18. B - Rs 100

Price of 5 Kg apples = 5 X 75 = Rs 375.
He gave Rs 500 to shopkeeper.
Shopkeeper returned 25. He kept Rs 475. He kept Rs 100 for 1 Kg tomatoes.
Price of 1 Kg tomatoes = 100

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19. C - =

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20. B - 26

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21. C - 8

One can buy 6 chocolates with Rs 30

Also he will get 2 chocolates free (1 free with 3)

So total chocolates = 8

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22. B - 148

P = 999/3 = 111
Q = 111/3 = 37
P + Q = 148

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23. C - 3/10

The start is divided into 10 big size triangles and 10 small size triangles. Out of these 3 big size triangles and 3 small size triangles are shaded. So we can say that 3/10 is shaded.

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24. B - 1950 ml

1 litre = 1000 ml
2 litre = 2000 ml
50 ml is taken out so left over = 2000 - 50 = 1950 ml.

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25. C - 10-02-2012

Leap year between 2011 and 2015 is 2012

2nd month is February

Least 2 digit even number is 10

So birth date is 10th Feb 2012

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26. B - 53000 gms

Days in June = 30.
Weight lost over 30 days = 100 X 30 = 3000 gms = 3 Kg

His initial weight = 50 + 3 = 53 Kg or 53000 gms.

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27. B - 40

5 oranges money = 4 apples
50 oranges money = 40 apples

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28. A - 2

P = 98
Q = (100/2) - 1 = 49
P/Q = 2

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29. D - 12

Number = 21 X 4 = 84
Quotient when 84 is divided by 7 = 12

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30. A - A-3, B-1, C-4, D-2

All lights are rays like sunrays, candlelight or bulb's light.
As the edge of the carpet is of fixed length it is a line segment.
The universe is expanding in both directions so it is a line.

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31. C - 26th Feb

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32. C - 2665

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33. D - 900 ml

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34. A - 2:05 pm

The train started from station at 10:45 am (45 minutes delayed start)
Normally it take 3 hours 30 minutes to reach station B (10:00 am to 1:30 pm)
But it increases its speed to reduce the time by 10 minutes and hence takes 3 hours 20 minutes to reach station B.
So the train will reach at 2:05 pm

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35. D - 3852

1. A = 100 - 97 = 3
2. B = 8
3. C = 8 - 3 = 5
4. D = 2 (Tens place digit of 121)

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