

1. C - C

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2. C - C

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3. A - SPLLCs

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4. B - Mason

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5. B - Home

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6. B - B

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7. D - 3, 1, 2, 4

Units of time:

- 1) Year
  - 2) Biennium = 2 years
  - 3) Triennium = 3 years
  - 4) Quadrennium = 4 years
  - 5) Decade = 10 years
  - 6) Century = 100 years
  - 7) Millennium = 1000 years
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8. C - 100

rule is  $5 \times 5 + 3 \times 3 = 34$ ,  $7 \times 7 + 6 \times 6 = 85$   
so,  $6 \times 6 + 8 \times 8 = 100$

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9. A - A

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10. C - C

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11. A - April

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**12. D - 21**

10 students like cricket and football and 11 likes only cricket so there are  $10 + 11 = 21$  students who like cricket.

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**13. D - D**

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**14. A - 592**

After conversion,

$$237 = 737,$$

$$523 = 573,$$

$$995 = 555,$$

$$775 = 775,$$

$$592 = 557$$

Of these 555 is lowest and 557 is second lowest, so 592 (557) is the answer.

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**15. A - A**

The arrow is moving clockwise by 2 triangular blocks and the shaded triangle is moving anti-clockwise by 2 triangular blocks in each subsequent picture.

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**16. B -  $1\frac{1}{2}$** 

Bottle had -  $3\frac{1}{4} = \frac{13}{4}$  litres

Shanu drank =  $\frac{3}{4}$  litres and Aarav drank = 1 litres

Total water drank =  $\frac{3}{4} + 1 = \frac{7}{4}$  litres

Water left in the bottle =  $\frac{13}{4} - \frac{7}{4} = \frac{6}{4} = 1\frac{1}{2}$  litres

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**17. C - 24 m**

Lets assume breadth of the field = x

So length = 2x

Perimeter =  $x + x + 2x + 2x = 72$  m

$$6x = 72 \text{ m}$$

$$x = 12 \text{ m}$$

$$\text{Length} = 2x = 2 \times 12 = 24 \text{ m}$$

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**18. B -  $\frac{3}{8}$** 

Total blocks -  $64 = 32$  white +  $32$  black

If 8 white blocks are painted black then

white blocks =  $32 - 8 = 24$

black blocks =  $32 + 8 = 40$

fraction of white blocks =  $\frac{24}{64} = \frac{3}{8}$

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**19. A - 48**

12 dozens =  $12 \times 12 = 144$  bananas

She eats 3 bananas in 1 day so for eating 144 bananas days required =  $\frac{144}{3} = 48$  days

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**20. B - 68**

67 is a prime number. The factors of 67 are 1 and 67  
So the sum is  $67 + 1 = 68$

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**21. B - 2/3**

Remaining water =  $21 - 61/3 = (63-61)/3 = 2/3$  litres

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**22. B - 12:30 pm**

Arnav Leaves after 1 hour of Aarav means Arnav leaves at 10:00 am.  
Sinci Arnav takes 2.5 hours to travel from Mumbai to Pune, he will reach Pune at 12:30 pm.

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**23. A - 90**

20 childrens = 40 legs  
5 adults = 10 legs  
5 dogs ( 1 each with 1 adult) = 20 legs  
3 stray dogs = 12 legs  
2 goats = 8 legs  
Total =  $40 + 10 + 20 + 12 + 8 = 90$  legs

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**24. B - 1**

Both 31 and 41 are prime numbers  
Factors of 31 = 1 and 31  
Factors of 41 = 1 and 41  
Common factor = 1

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**25. D - Rs 36**

4 weeks = 20 weekdays (each week have 5 weekdays, Monday to Friday), 4 Saturdays and 4 Sundays  
Total saving during weekdays =  $20 \times 1 = \text{Rs } 20$   
Total saving on Saturdays and Sundays =  $8 \times 2 = \text{Rs } 16$   
Total saving in 4 weeks =  $20 + 16 = \text{Rs } 36$

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**26. A - 2**

Given that width = 1 m  
Assume that length = x  
Perimeter = 6 times of width = 6 m  
Also perimeter =  $x + x + 1 + 1 = 6$   
 $2x = 4$  m  
 $x = 2$  m

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**27. C - Both contain equal amount**

A had 2 litres and B had 1 litre of milk  
After Rahul drank milk:  
Remaining milk in A =  $2 - 7/4 = (8-7)/4 = 1/4$  litres  
Remaining milk in B =  $1 - 3/4 = (4-3)/4 = 1/4$  litres  
So both bottles contain equal milk now

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**28. A - 37.8**

$$Q = P + R = 23.3 \times 3 = P + 32.1$$
$$P = 69.9 - 32.1 = 37.8$$

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**29. B - 60**

Lets assume Ram scored P marks in third subject  
so  $P + 75 + 65 = 200$   
 $P = 200 - 140 = 60$

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**30. C - 972**

First digit = largest single digit number = 9  
Third digit + 9 = 11 so Third digit = 2  
Middle digit =  $9 - 2 = 7$   
So the number is 972

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**31. B - 7/13**

Total population =  $20 + 30 + 10 + 5 = 65$   
Femal population =  $30 + 5 = 35$   
Fraction =  $35/65 = 7/13$

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**32. D - Rs 1600**

Area of field =  $4 \times 4 = 16$  metre square  
Total cost =  $16 \times 100 = \text{Rs } 1600$

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**33. B - Rs 60**

Perimeter of the triangle =  $3 \times 10 = 30$  metres  
Cost =  $\text{Rs } 2 \times 30 = \text{Rs } 60$

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**34. D - 96.50**

Money spent by Varun =  $203.5 + 700 = 903.5$   
Money left =  $\text{Rs } 1000 - \text{Rs } 903.50 = \text{Rs } 96.50$

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**35. A - 2140**

Savings =  $3275 - 1135 = \text{Rs } 2140$

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**36. A - 64.16/16**

5 tens, 2 ones, 1 tenths and 3 hundredths = 52.13  
 $52.13/13 = 4.01$

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**37. B - 50**

Total pencils = 200  
Packs of 4 pencils =  $200/4 = 50$

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**38. B - A & C**

- A.  $100/300 = 1/3$   
B.  $19/76 = 1/4$   
C.  $17/51 = 1/3$   
D.  $21/62 = 21/62$
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**39. B - 100**

Lets assume he score P runs in third match so  
 $150 + 75 + P + 75 + 100 = 500$   
 $P + 400 = 500$   
 $P = 100$  runs

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**40. D - 0.11**

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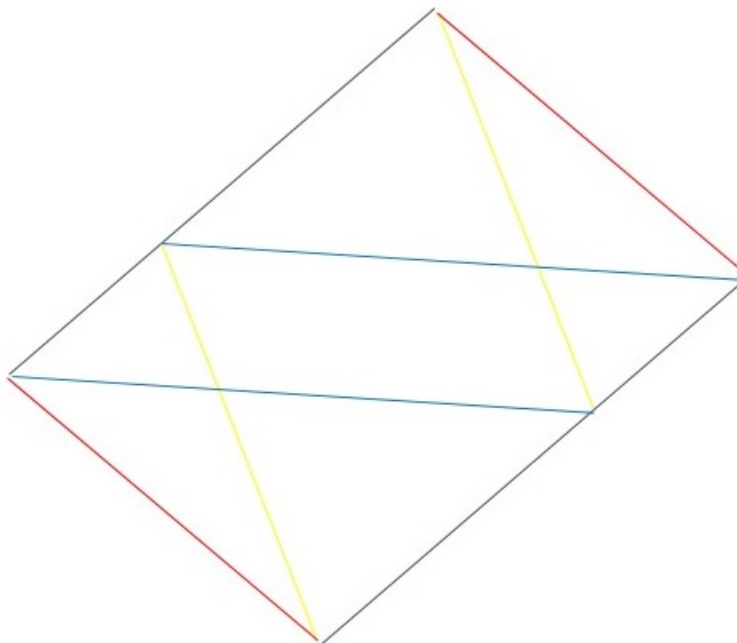
**41. B - 4/9**

Total small squares = 36  
Shaded (blue coloured) squares = 20  
Unshaded (white coloured) squares =  $36 - 20 = 16$   
Ratio =  $16/36 = 4/9$

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**42. D - 4**

Refer Solution Figure (Parralel lines shown in same colour)



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**43. B - 36**

Total Area =  $12 \times 6 = 72$   
4 triangles = 72  
shaded area = 2 triangles = 36

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**44. B - 550**

Cubs born in Year 2 = 100  
Cubs born in Year 3 = 200  
Cubs born in Year 4 = 250  
Totalcubs born from Year 2 to Year 4 = 550

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**45. D - 2**

Perimeter =  $4 + 4 + 3 + x + x = 15$   
 $2x = 15 - 11$   
 $2x = 4$   
 $x = 2$

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**46. D - 16**

Drum Capacity = 24  
Lets assume that it requires n times to fill the drum  
so  $n \times \frac{3}{2} = 24$   
 $n = 24 \times \frac{2}{3} = 16$

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**47. A - 5445**

First digit =  $2 + 3 = 5$   
First digit + 4th digit = 10 so fourth digit =  $10 - 5 = 5$   
First + second + third + fourth = 18  
 $5 + \text{second} + \text{third} + 5 = 18$   
second + third = 8  
second = third = 4  
so number = 5445

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**48. C - 1830**

2016 was a leap year with 366 days  
So total Km =  $5 \times 366 = 1830$  Km

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**49. C - 1250**

Cubs born in Year 2 = 50  
Cubs born in Year 2 = 100  
Cubs born in Year 3 = 200  
Cubs born in Year 4 = 250  
Cubs born in Year 5 = 450  
Total cubs born =  $50 + 100 + 200 + 250 + 450 = 1050$   
Total Lion population =  $200 + 1050 = 1250$

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**50. C - 48**

Refer solution figure:  
The figure can be divided into three rectangles A, B and C  
From figure:  
Area of A =  $2 \times 4 = 8 \text{ cm}^2$   
Area of B =  $6 \times 4 = 24 \text{ cm}^2$   
Area of C =  $4 \times 4 = 16 \text{ cm}^2$   
Total Area =  $8 + 24 + 16 = 48 \text{ cm}^2$

