1. C-C
2. C-C
3. A-SPLLCS
4. B-Mason
5. B-Home
6. B-B

## 7. $\mathrm{D}-3,1,2,4$

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
8. C-100
rule is $5 \times 5+3 \times 3=34,7 \times 7+6 \times 6=85$
so, $6 \times 6+8 \times 8=100$
9. $\mathrm{A}-\mathrm{A}$
10. C-C
11. A-April
12. D-21

10 students like cricket and football and 11 likes only cricket so there are $10+11=21$ students who like cricket.
13. D - D
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
15. $\mathbf{A}-\mathbf{A}$
16. B-1 1/2

Bottle had - $31 / 4=13 / 4$ litres
Shanu drank = 3/4 litres and Aarav drank $=1$ litres
Total water drank $=3 / 4+1=7 / 4$ litres
Water left in the bottle $=13 / 4-7 / 4=6 / 4=11 / 2$ litres
17. C-24m

Lets assume breadth of the field $=x$
So length $=2 x$
Perimeter $=x+x+2 x+2 x=72 m$
$6 x=72 \mathrm{~m}$
$\mathrm{x}=12 \mathrm{~m}$
Length $=2 x=2 \times 12=24 \mathrm{~m}$
18. B - 3/8

Total blocks $-64=32$ white +32 black If 8 white blocks are painted black than white blocks $=32-8=24$
black blocks $=32+8=40$
fraction of white blocks $=24 / 64=3 / 8$
19. A-48

12 dozens $=12 \times 12=144$ bananas
She eats 3 bananas in 1 day so for eating 144 bananas days required $=144 / 3=48$ days
20. B-68

67 is a prime number. The factors of 67 are 1 and 67
So the sum is $67+1=68$
21. B - $2 / 3$

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

## 22. B - 12:30 pm

Arnav Leaves after 1 hour of Aarav means Arnav leavs at 10:00 am
Sinci Arnav takes 2.5 hours to travel from Mumbai to Pune, he will reach Pune at $12: 30 \mathrm{pm}$.
23. A-90

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

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

## 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 $=20 \times 1=$ Rs 20
Total saving on saturdays and sundays $=8 \times 2=$ Rs 16
Total saving in 4 weeks $=20+16=$ Rs 36
26. A-2

Given that width $=1 \mathrm{~m}$
Assume that length $=x$
Perimeter $=6$ times of width $=6 \mathrm{~m}$
Also perimeter $=x+x+1+1=6$
$2 \mathrm{x}=4 \mathrm{~m}$
$\mathrm{x}=2 \mathrm{~m}$
27. $C$ - Both contain equal amount
$A$ had 2 litres and $B$ had 1 litres 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
28. A-37.8
$Q=P+R=23.3 \times 3=P+32.1$
$\mathrm{P}=69.9-32.1=37.8$
29. B-60

Lets assume Ram scored P marks in third subject
so $P+75+65=200$
$P=200-140=60$
30. C-972

First difit $=$ largest single digit number $=9$
Third digit $+9=11$ so Third digit $=2$
Middile digit $=9-2=7$
So the number is 972
31. B-7/13

Total population $=20+30+10+5=65$
Femal population $=30+5=35$
Fraction $=35 / 65=7 / 13$
32. D - Rs 1600

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

## 33. B - Rs 60

Perimeter of the triangle $=3 \times 10=30$ metres
Cost $=$ Rs $2 \times 30=$ Rs 60
34. $D-96.50$

Money spent by Varun $=203.5+700=903.5$
Money left = Rs 1000 - Rs $903.50=$ Rs 96.50
35. A-2140

Savings $=3275-1135=$ Rs 2140
36. A-64.16/16

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

## 37. B-50

Total pencils $=200$
Packs of 4 pencils $=200 / 4=50$
38. B-A \& C
A. $100 / 300=1 / 3$
B. $19 / 76=1 / 4$
C. $17 / 51=1 / 3$
D. $21 / 62=21 / 62$
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
40. D - 0.11
41. B $-4 / 9$

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

Refer Solution Figure (Parralel lines shown in same colour)

43. B-36

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

## 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 $4=550$
45. D - 2

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

## 46. D - 16

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

## 47. A - 5445

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

## 48. C-1830

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

## 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 $=200+1050=1250$
50. C-48

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


