

1. C - C

2. C - C

3. A - SPLLC

4. B - Mason

5. B - Home

6. B - B

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, $6 \times 6 + 8 \times 8 = 100$

9. A - 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. A - A**16. B - 1 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

17. C - 24 m

Lets assume breadth of the field = x

So length = 2x

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

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

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

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

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 = $\frac{24}{64} = \frac{3}{8}$

19. A - 48

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

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

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 = $20 \times 1 = \text{Rs } 20$

Total saving on Saturdays and Sundays = $8 \times 2 = \text{Rs } 16$

Total saving in 4 weeks = $20 + 16 = \text{Rs } 36$

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

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

$Q = P + R = 23.3 \times 3 = P + 32.1$

$P = 69.9 - 32.1 = 37.8$

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 digit = largest single digit number = 9
Third digit + 9 = 11 so Third digit = 2
Middle 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 = $16 \times 100 = \text{Rs } 1600$

33. B - Rs 60

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

34. D - 96.50

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

35. A - 2140

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

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. $21/62 = 21/62$
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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

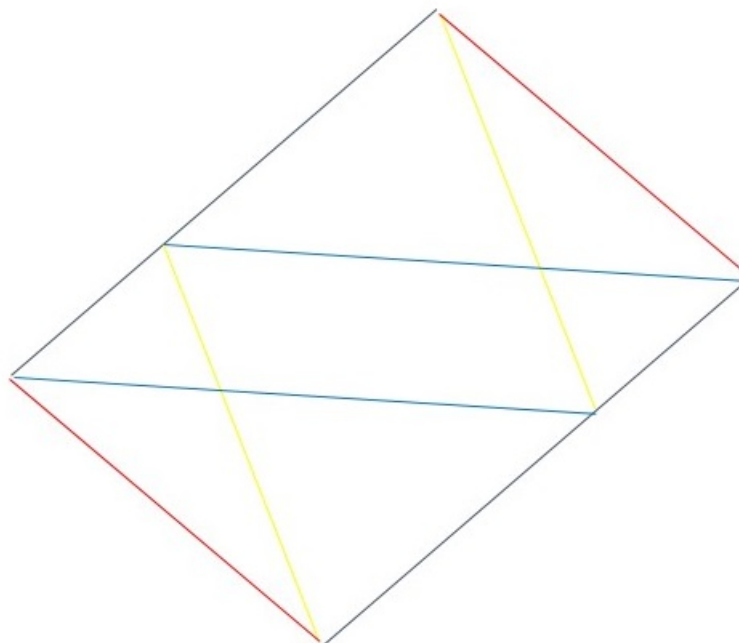
40. D - 0.11

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

46. D - 16

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

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

48. C - 1830

2016 was a leap year with 366 days
So total Km = $5 \times 366 = 1830$ 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 = $2 \times 4 = 8$ cm²
Area of B = $6 \times 4 = 24$ cm²
Area of C = $4 \times 4 = 16$ cm²
Total Area = $8 + 24 + 16 = 48$ cm²

