**MARKING SCHEME**

**SAMPLE PAPER 1**

**CLASS- VIII**

**MATHS**

**SECTION A**

1 . 1 mark

2. 14 1mark

3. 25 1 mark

4. 3ab 1 mark

**SECTION B**

5. 100 – 1 = 99 – 3 = 96 – 5 = 91 – 7 = 84 – 9 = 75 – 11 = 64 – 13 = 51

51 – 15 = 36 – 17 = 19 – 19 = 0 1 mark

Counting of Steps = 10 1/2 mark

Square root of 100 = 10 1/2 mark

6. 1 mark

= 1 mark

7. d1 =20cm

d2  = 4.1 cm

area of rhombus= d1 d2 1 mark

=

= 41 sq cm. 1 mark

8. surface area =1200 sq cm

6 1 mark

=

= 10 cm 1 mark

9. A = 5 1 mark

B = 4

C = 1 1 mark

10. 1 + 5 + 2 + 8 + 7 = 23

23 is not divisible by 3 1.5 marks

So, 15287 is not divisible by 3 0.5 marks

**SECTION C**

11. For each correct rational number ½ mark

12. 2m= 8

m= 4 1 mark

1 mark

1 mark

13. After finding the by long division method,

we get remainder 131 2 marks

5607 – 131 = 5476

= 74 1 mark

Or

Greatest number of 4-digits = 9999. 1 mark

To find 9999 by long division method.

The remainder is 198. 1 mark

Therefore, the required perfect square is 9999 – 198 = 9801.

And, √9801 = 99 1 mark

14 a) 1.001 X

= 1.001 X 100000000000

= X 100000000000

= 1001 X 100000000 = 100100000000 1 ½ marks

b) 0.000000352

=

= 3.52 X 1 ½ marks

15. (x2 – 2xy + y2) – z2

(x – y)2 – z2 1.5 marks

(x – y + z) (x – y – z) 1.5 marks

Or

*m*4 *–* 256 = (*m*2)2 *–* (16) 2 1 mark

= (*m*2 *–*16) (*m*2 +16) 1 mark

= (*m* – 4) (*m* + 4) (*m*2 +16) 1 mark

16. For correct plotting 2 marks

For verification 1 mark

17. For correct scale and labelling 1 mark

For correct graph. 2 marks

18.i) Faces = ? When vertices = 6 and Edges = 12

F + V – E = 2 1 mark

F + 6 – 12 = 2 1 mark

E = 8 1 mark

**SECTION D**

19.

=

= 2 marks

=

=

=

= 2 marks

20.

5 ( 2 marks

2 marks

21. Let Amina thinks x number

According to condition

2 marks

*x*=4 2 marks

OR



2 MARKS

6 (4*x* + 8) = 5 (5*x* + 8)

24*x* + 48 = 25*x* + 40

24*x* + 48 – 40 = 25*x*

24*x* + 8 = 25*x*

8 = 25*x* – 24*x*

8 = *x* 1 mark

Therefore, Anu’s present age = 4*x* = 4 × 8 = 32 years ½ mark

Raj’s present age = 5*x* = 5 × 8 = 40 years ½ mark

22 For correct answer 4 marks

23. Radius= 7m

Height= 3m

Total surface area of Cylinder= 2

= 440 sq m 2marks

Volume of cylindrical tank= r h

= 462 cu m. 2marks

OR

Surface area of suitcase=2x(80 x 48+ 48 x24 + 24x 80)

= 13824 sq cm 2 marks

Surface area of 100 suitcase = 100 X 13824

Length of tarpaulin = = 14400cm= 144m 2 marks

24.

= 4 marks

25. i)

x = 2.25 X107  crystals 2 marks

x = 5.4 X106  crystals 2 marks

OR

Putting information in table

|  |  |  |
| --- | --- | --- |
| Number of Hours | 6 | 5 |
| Number of bottles | 840 | X |

(1 mark)  
 It is a case of direct variation

(1

(1 mark)

bottles (

26

|  |  |  |
| --- | --- | --- |
| Number of student | 100 | 125 |
| Number of days | 20 | Y |

1mark

More students lesser no.of days the food will last.It is an Inverse variation 1mark

100 x20=125 x Y 1mark

Y=16 days. 1 mark

27. For correct factorization 2 marks

For correct division 2 marks

28. For correct answer of each part 1 mark