

NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH



(PEEVEES GROUP OF SCHOOLS, K.S.A.)
Affiliated to CBSE – New Delhi.

SUMMATIVE ASSESSMENT- 2 (2016 -2017)

Subject: MATHEMATICS

Date: 01.03.17

Set: A

Time: 2 ½ Hours

Class: 7 Sec: _____

Max. Marks: 90

Name: _____

Roll No. : _____

Instructions to the Candidates:

- All questions are compulsory
- The question paper consist of 37 questions divided into four sections A, B, C & D, Section A comprises of 10 questions of 1 mark each, Section B comprises of 10 questions of 2 mark each, Section C comprises of 8 questions of 3 mark each and Section D comprises of 9 questions of 4 mark each
- Use of calculator is not permitted

Section A

(10 X 1M=10M)

Fill in the blanks

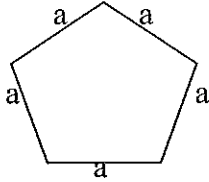
1. Multiplicative inverse of $\frac{-25}{68}$ is
2. Fill in the blanks with <, > or =
 - a) $\frac{1}{12}$ $\frac{1}{2}$
 - b) $\frac{4}{10}$ $\frac{2}{5}$
3. $5 + \frac{-1}{2} =$
4. The sum of angles of a triangle =
5. 'Two times of a number 'y' subtracted from 10' is represented algebraically as

Multiple choice questions

6. The perimeter of a square tile is 48cm. Then the measure of each sides of the square tile iscm

- a) 24 cm b) 12cm c) 98 cm d) 192cm

7.



Perimeter of the figure =

- a) $5a^2$ b) $6a$ c) $5a$ d) a^5

8. Subtract: $-2x^2$ from $4x^2 =$

- a) $6x^2$ b) $2x^2$ c) $-6x^2$ d) $-2x^2$

9. 8^2 is same as :

- a) 2^8 b) $(2^6)^2$ c) $(2^3)^2$ d) 8×2

10. $3^5 \div 3^4 =$

- a) 3^{20} b) 3 c) 3^9 d) 9^{20}

Section B

(10 X 2M = 20M)

11. Write the following rational numbers in standard form.

- a) $\frac{9}{-45}$ b) $\frac{-49}{-28}$

12. Differentiate between rational numbers and fractions with examples.

13. Add. $\frac{-5}{8}$ and $\frac{-1}{24}$

14. Find the product. $\frac{6}{15} \times \frac{-10}{18}$

15. Can we construct a triangle with the measures of all its angles given? Give reason for your answer.

16. Find the area of a triangle if its base is 12.6cm and height is 15cm.

17. Draw a factor tree for the given expression and list the factors of the terms and numerical coefficients.

$$-6x^2y + 2xy^2$$

18. Classify the polynomial as Monomial / Binomial / Trinomial

- a) $3x + 2y$
b) $5z + 6z + 10z$
c) $2x^2 - 2x + 1$
d) $5abc$

19. Express 900 as the product of their prime factors.

20. Simplify.

- a) $a^5 \times a^4 =$
- b) $p^9 \div p^6 =$



Section C

(8 X 3M = 24M)

21. Represent the following numbers on a number line.

$$\frac{-1}{6}, \frac{-5}{6}, \frac{2}{3}$$

22. What number should be subtracted from $\frac{-4}{9}$ to get $\frac{-5}{12}$.

23. Ameen reads $\frac{1}{8}$ of a book containing 280 pages in a day. How many days will she needs to finish a book with 700 pages.

24. Construct a right angled triangle with the measure of the hypotenuse is 6.5cm and one of its legs is 5cm.

25. The cost of fencing a square garden at the rate of Rs.5 per meter is Rs.2500. Find the area of the garden.

26. The perimeter of a rectangular plot is 120m. The length of the plot is 40m. Find the breadth and area of the plot.

27. Find the general rule to find the n^{th} term of the series.

$$19, 23, 27, 31, 35 \dots\dots\dots$$

28. Subtract : $(x^2 - 3xy - 6y^2 + 5y)$ from $(3x^2 - y^2 + 4xy - 6x)$

Section D

(9 X 4M = 36M)

29. Express each of the following as a product of prime factors in exponential form.

a) 125×720

b) 1000×360

30. Write true or false and justify your answer.

a) $100 \times 10^{15} = 10^{17}$

b) $45^0 = 4500000^0$

c) $6^2 \times 3 > (6^2)^3$

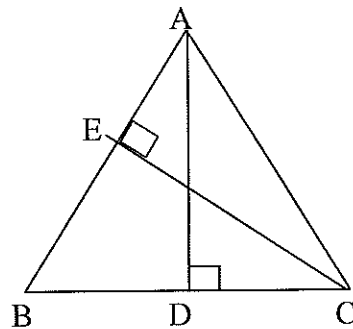
d) $(8)^2 = (2)^6$

31. Krishna earns Rs.18000 per month. He spends $\frac{1}{4}$ of his income on food ; $\frac{3}{10}$ of the remainder on house rent and $\frac{5}{21}$ of the remainder on education of children. How much money is still left with him?

32. Construct ΔABC with the given measures $\angle A = 55^\circ$, $\angle B = 50^\circ$, $BC = 5\text{cm}$. State which congruency criteria you applied in the construction.

33. A number x multiplied by 4 times with itself and added 3 times another number 'y'. Form an algebraic expression for the statement and find its value if $x=4$ and $y=3$.

34. The length $BC = 12\text{cm}$, $AD = 3\text{cm}$, $CE = 4\text{cm}$. Find the length of side AB .





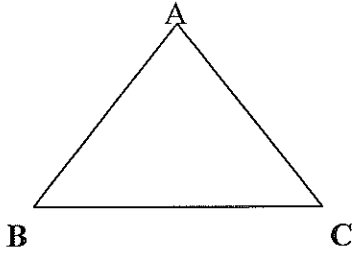
35. Amina's fathers age is 2 more than 4 times of her age. What is the difference between their ages?

36. Simplify :

a) $\frac{5^3 a^4 b^8}{5^2 a^3 b^7}$

b) $12^0 + 24^0 + 100^0 + 3^3$

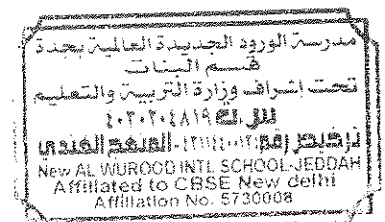
37. Find the perimeter of the triangular field.



$$AB = 2y^2 + 5y - 8$$

$$BC = 9y^2 - 7$$

$$AC = 8y + 8 - y^2$$



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35 copies.