



DELHI PUBLIC SCHOOL, GWALIOR
MODEL TEST PAPER
CLASS – VI
SUBJECT – MATHEMATICS

Time: 3 hrs.

M.M. 80

General Instructions

1. *All questions are compulsory.*
2. *The question paper consists of 28 questions divided into 4 sections A, B, C and D.*
3. *There is no overall choice. However, internal choice has been provided in 2 questions of 2 marks each, 3 questions of 3 marks each and 2 questions of 4 marks each.*
4. *Use of calculator is prohibited.*

Section - A

1. Name the property depicted by $a + b = b + a$.
2. Which is the only even prime number?
3. How many lines can be drawn with two given points?
4. How many thousands make a lakh?

Section - B

5. (i) Write the predecessor of 10000.
(ii) Write the successor of 10199.
6. Find the sum of the place values of two 5's in 650052.
7. Write all the factors of:
(a) 24 (b) 12

OR

Write first four multiples of

- (a) 12 (b) 9

8. Write opposites of the following:
(a) Increase in weight (b) Loss of ` 700
9. Write the shapes of the following:
(a) A road roller (b) A brick
10. Express the following as the sum of two odd primes:
(a) 44 (b) 18

OR

Estimate $5,290 + 17986 = ?$

Section - C

11. Find the sum of $(-10) + 92 + 84 + (-15)$

OR

Use number line and add the following:

$$(-1) + (-2) + (-3)$$

$$(-9) + 7 + (-1)$$

12. Using divisibility test, determine whether 12582 is divisible by 9 or not.

OR

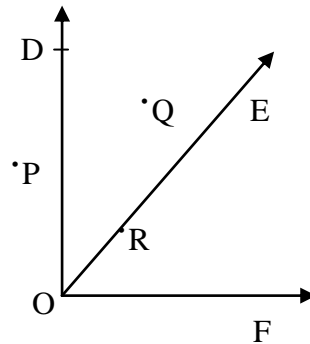
Using divisibility test, determine whether 7138965 is divisible by 11 or not.

13. (i) Write four negative integers greater than -10 .
(ii) Write four negative integers less than -15 .
(iii) Write four integers greater than -1 .
14. Add the following numbers and check by reversing the order of the addends.
 $16509 + 114$
15. Name the type of triangles in the following:
(a) ΔPQR such that $PQ = QR = PR = 5$ cm.
(b) ΔDEF with $m\angle D = 90^\circ$.
(c) ΔABC with $AB = 8.7$ cm, $AC = 7$ cm and $BC = 6$ cm.

OR

In the given figure, name the points

- (a) In the interior of $\angle DOE$
(b) In the exterior of $\angle EOF$
(c) On $\angle EOF$



16. Make a factor tree of 36.
17. What is the HCF of two consecutive
(a) numbers ? (b) even numbers ? (c) odd numbers ?
18. (i) Insert commas suitably and write the name of the number 9854670 according to Indian System of Numeration.
(ii) Insert commas suitably and write the name of the number 74592083 according to International System of Numeration.

Section - D

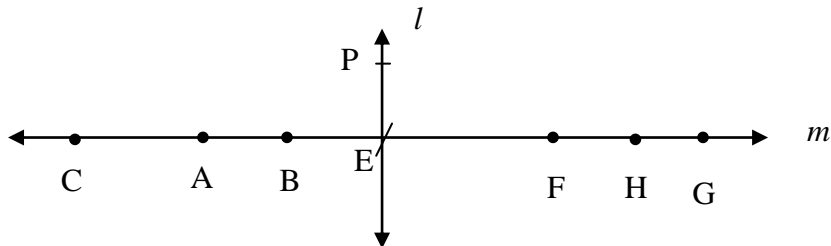
19. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer?
20. The length, breadth and height of a room are 825 cm, 675 cm and 450 cm respectively. Find the longest tape which can measure the three dimensions of the room exactly.

OR

Find the smallest 4 digit number which is divisible by 18, 24 and 32.

21. Draw any circle and mark
- | | |
|----------------|-----------------------------|
| (a) its centre | (e) a segment |
| (b) a radius | (f) a point in its interior |
| (c) a diameter | (g) a point in its exterior |
| (d) a sector | (h) an arc |

22. Study the given figure. The line l is perpendicular to line m .



- a) Is $CE = EG$
 b) Does l bisect CF
 c) Identify any two line segments for which PE is the perpendicular bisector.
 d) State whether true or false
- $AC < FG$
 - $CE = FH$
 - $BC < EH$
23. A machine, on an average manufactures 2,825 screws a day. How many screws did it produce in the month of Jan 2011?

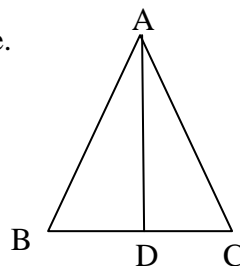
OR

A vendor supplies 32 litres of milk to a hotel in the morning and 68 litres of milk in the evening. If the milk costs ₹ 20 per litre, how much money is due to the vendor per day?

24. Following is the list of temperatures of four places in India on a particular day of the year.

<u>Place</u>	<u>Temperature</u>
Siachin	8°C below 0°C
Gwalior	30°C above 0°C
Srinagar	5°C below 0°C
Delhi	20°C above 0°C

- a) Write the temperature of these places in the form of integers.
 b) Represent the temperature of the cities along with their names on a number line.
 c) Which is the coolest and hottest place?
 d) Write the names of the places where temperature is below 0°C but more than -10°C .
25. a) Write the name of any 4 angles in given figure.



- b) Draw rough diagram and illustrate
 (i) open curve (ii) closed curve

26. Write all the integers between:
(a) -7 and $+7$ (b) -5 and -1
and locate them on number line.
27. Three tankers contain 403 litres, 434 litres, 465 litres of diesel respectively. Find the maximum capacity of container that can measure the diesel of the three containers exact no. of times.
28. Define-
- | | |
|-----------------|-------------------|
| a) Acute angle | b) Obtuse angle |
| c) Reflex angle | d) Straight angle |

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