

MATHS
SAMPLE QUESTION PAPER (SEMESTER 1)

Class: VI

Maximum Marks: 50

Time duration: 2hrs

No of pages:3

List of Topics covered in this sample paper:

Number system

The integers

Percentage

Profit and loss

Fundamental concepts

Ratio

Fundamental concepts

Geometry Angles

Fundamental operations

Properties of angles and lines

Construction of angles

Power and roots

General Instructions:

All questions are compulsory.

Show the worksheet for the answers

Draw the diagrams neatly wherever required

1. For the given number find the number divisible by two , three and five 2m
456,2365,8956,520,8962,2630,8745,6531,4520,69875
2. Evaluate 3m
- a) $| - 7 | + | - 5 | - | 10 |$
- b) $| - 15 + 20 |$
- c) $+ | - 5 | = +5$
3. Express as decimal fractions: 2m
- a)45% b)85% c)10.1% d)29.2%
4. find 3m
- a) 10% of 800-12% of 600+20% of 125
- b) 20% of 900-25% of 500+50% of 625

5. Find the gain and loss percent of : 3m
- a) C.P = Rs 50 and gain = Rs 8
- b) C.P = Rs 100 and S.P = Rs 80
- c) C.P = Rs 5 and Loss = 50p

6. Group the like terms and unlike terms 4m
- a) $6, 5x, 16y, 12x, 2y, 6z, 15, 65z$
- b) $5ax, -16by, 8xa, 23by, 12ax, -16by$

7. Give the numerical coefficient of the term 4m
- a) $5xy$ b) $5pqr$ c) $-3x \div 6y$ d) $-15xy/6z$

8. Divide 268 into two parts in the ratio $2\frac{1}{3} : 5\frac{1}{4}$ 2m

9. Find which of the following figures are closed figures 3m



Fig a

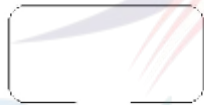


Fig b



Fig c

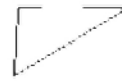


Fig d

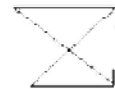


Fig e



Fig f

10. Find the complement of a) $\frac{1}{3}$ of 240° b) 0.5 times of 120° 3m

11. Define the terms and give examples: 10m
- a) Acute angle
- b) Obtuse angle
- c) Reflex angle
- d) Straight angle
- e) Adjacent angles

12. Given a pair of parallel lines, find a and b and give reason 3m

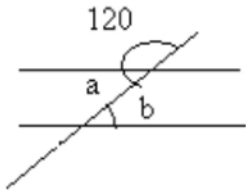


Fig a

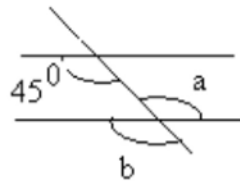


Fig b

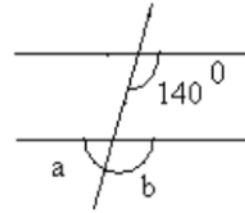


Fig c

13. Draw a line segment $ox = 6\text{cm}$, use set square to construct angle $xoy = 65^\circ$, such that $oy = 5\text{cm}$
 join x and y ; then measure the length of xy . 2m

14. Find the cubes of a) $5\frac{1}{3}$ b) $-3\frac{1}{3}$ c) $4\frac{1}{5}$ d) 2.5 4m

15. Evaluate: 2m

a) $\sqrt{(25 \times 400)}$

b) $\sqrt{(3^6 \times 5^2 \times 6^3)}$

