

MATHEMATICS – VIII

Sample Question Paper for Standardized Assessment for Elementary Schools (SAfES)

CHAPTER	Name of Chapter	Weightage of Marks	No. of Question carrying 1 mark	No. of Question carrying 2 marks	No. of Question carrying 3 marks	No. of Question carrying 5 marks
10	Exponents and Powers	22	7	3	3	0
11	Direct and Inverse Proportions	30	5	3	3	2
12	Factorisation	30	5	3	3	2
13	Introduction to Graphs	18	3	2	2	1
		100	20	11	11	5

()* - Number of questions

Distribution of marks		
Easy 30%	Average 50%	Difficult 20%
6 (6)	9 (9)	5 (5)
8 (4)	10 (5)	4 (2)
6 (2)	21 (7)	6 (2)
10 (2)	10 (2)	5 (1)
30 (14)*	50 (23)*	20 (10)*

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Class-VIII

Mathematics

Objectives/MCQ

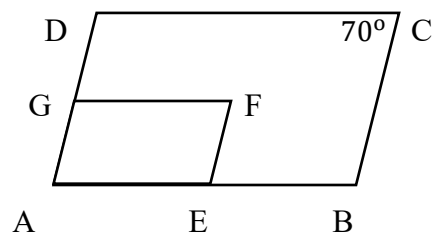
(1 Mark each)

- Q1. Two square whose diameter 20 centimetre each is put together to form a rectangle. Find the area of that rectangle.
- a) 50 sq. cm b) 45 sq. cm
- c) 30 sq.cm d) 25 sq.cm
- Q2. Which is not a characteristic of a rectangle?
- a) All angles are right angles b) All sides are congruent
- c) All angles are congruent d) Opposite sides are parallel
- Q3. The perimeter of a rhombus is 40 cm and the length of one of its diagonals is 12 cm, then the area of the rhombus is.
- a) 92 cm^2 b) 94 cm^2
- c) 96 cm^2 d) 98 cm^2
- Q4. A cycle is sold for ₹. 1760 at a loss of 20%. For how much should it be sold to gain 10%?
- a) ₹. 2400 b) ₹. 2420
- c) ₹. 2200 d) ₹. 2240

VSA

(2 Marks Each)

- Q1. A train from Sairang to Guwahati goes 60 km in one hour. How much distance will it cover in 45 minutes?
- Q2. In the given figure, ABCD and DEFG are both parallelograms. If $\angle C = 70^\circ$, find $\angle AGF$ and $\angle EFG$



Q3. If Republic Day falls on Friday this year and Kunga was born 4 days before 12th January, then he celebrates his birthday on which day?

Q4. Solve: $[\{(45 + 90 \div 3 \times 6) \times 2\} \div \frac{1}{2}] \times 56$

SA

(3 Marks Each)

Q1. Divide the sum of $\frac{-7}{6}$ and $\frac{4}{5}$ by their product.

Q2. A positive number is 5 times the other number. If 21 is added to both the numbers then one of the new numbers becomes twice the other number. What are the numbers?

Q3. One of the angles of a triangle is equal to the sum of the two angles. If the ratio of the other two angles of the triangle is 4:5, find the angles of a triangle.

Q 4. Two adjacent sides of a rectangle are $3x^2 - 5y^2$ and $7x^2 - xy$. Find its perimeter.

LA

(5 Marks Each)

Q1. Half of a deer at Thenzawl Deer Park are grazing in the field. Three-fourth of the remaining are enjoying the salt licks nearby. The rest 9 are drinking water from the pond. Find the number of deer at Thenzawl Park.

Q2. Find the value of x :

$$10 - \left(\frac{x-1}{2}\right) - \left(\frac{x-2}{3}\right) = \frac{x-3}{4}$$

Q3. If 300 tickets were sold for charity in the schools. The total sells of tickets was ₹. 1250. If the tickets were of two denominations of ₹. 2.50 and ₹. 5. How many of each denomination were sold?

Q4. If $x + y = 13$ and $xy = 6\frac{1}{4}$, find $x - y$.