# INDIAN SCHOOL SOHAR FORMATIVE ASSESSMENT II (2015-16) <br> MATHEMATICS 

Date:
Class: VIII

Marks: 20
Time: 40 minutes

Note: Do the calculations in working column. Give necessary formulae and steps wherever required.

## SECTION-A (Each question carries 1 mark)

For the questions 1 to 4 fill in the blanks by choosing the most suitable answers from the options given.

1. A $\ldots . . . . . . . .$. is a line segment connecting two non-consecutive vertices of a polygon.
a) Side
b) Diagonal
c) Bisector
d) Median
2. The sum of the measures of the exterior angles of any convex polygon is $\qquad$
a) $180^{\circ}$
b) $90^{\circ}$
c) $270^{\circ}$
d) $360^{\circ}$
3. A $\qquad$ has exactly two distinct consecutive pairs of sides of equal length.
a) Parallelogram
b) Kite
c) Rectangle
d) Trapezium.

Set 2
No of printed pages: 2

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## SECTION-A

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1. A has exactly two distinct consecutive pairs of sides of equal length.
b) Parallelogram
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2. A is a line segment connecting two non-consecutive vertices of a polygon.
a) Side
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3. The sum of the measures of the exterior angles of a convex polygon is $\qquad$
b) $180^{\circ}$
b) $90^{\circ}$
c) $270^{\circ}$
d) $360^{\circ}$

## SECTION-B (Each question carries 2 marks)

4. Three angles of a quadrilateral are $45^{\circ}, 75^{\circ}$, and $105^{\circ}$. Find the fourth angle.
5. What is the measure of one exterior angle of a regular octagon?

SECTION-C (Each question carries 3 marks)
6. Solve the equation: $\frac{2 x-5}{5 x+2}=\frac{3}{22}$
7. Two diagonals of a rectangle are $3 x+2 \mathrm{~cm}$ and $2 x+3 \mathrm{~cm}$. Find the measurement of each diagonal.
8. Construct a quadrilateral ABCD , with $\mathrm{AB}=4.4 \mathrm{~cm}, \mathrm{BC}=4.2 \mathrm{~cm}, \mathrm{CD}=6.2 \mathrm{~cm}, \mathrm{DA}=3 \mathrm{~cm}$, and $\mathrm{BD}=$ 6.4 cm .

SECTION-D (Each question carries 4 marks)
9. The ages in years of Ramesh and Rahim are in the ratio 5:7. If Ramesh were 9 years older and Rahim 9 years younger the age of Ramesh would have been twice the age of Rahim. Find their ages.

SECTION-B (Each question carries 2 marks)
4. What is the measure of one exterior angle of a regular hexaagon?
5. Three angles of a quadrilateral are $55^{\circ}, 65^{\circ}$, and $115^{\circ}$. Find the fourth angle.

## SECTION-C

(Each question carries 3 marks)
6. Solve the equation: $\frac{6 x+7}{3 x+2}=\frac{5}{3}$
7. Construct a quadrilateral ABCD , with $\mathrm{AB}=4.4 \mathrm{~cm}, \mathrm{BC}=4.2 \mathrm{~cm}, \mathrm{CD}=6.2 \mathrm{~cm}, \mathrm{DA}=3 \mathrm{~cm}$, and $\mathrm{BD}=$ 6.4 cm .
8. Two diagonals of a rectangle are $3 x+2 \mathrm{~cm}$ and $2 x+3 \mathrm{~cm}$. Find the measurement of each diagonal.

## SECTION-D

(Each question carries 4 marks)
9. The ages in years of Ramesh and Rahim are in the ratio 5:7. If Ramesh were 12 years older and Rahim 12 years younger, then the age of Ramesh would have been twice the age of Rahim. Find their ages.

