# KENDRIYA VIDYALAYA SANGATHAN 

## HYDERABAD REGION

## COMMON FORMATIVE ASSESSMENT - I

Class: VIII
Sub: MATHEMATICS

Marks: 40
Duration: 90 Minutes

Instructions:
All questions are compulsory. Section A contains 5 questions of 1 mark each, Section $B$ contains 4 questions of 2 marks each, Section C contains 5 questions of 3 marks each and Section D contains 3 questions of 4 marks each.

## SECTION - A

1. The additive inverse of the $-\frac{7}{19}$ is $\qquad$
(a) $\frac{19}{7}$
(b) $\frac{7}{19}$
(c) $-\frac{7}{19}$
(d) 0
2. The product of $6 / 13$ and the reciprocal of $-\frac{7}{16}$ is $\qquad$
(a) $-\frac{96}{91}$
(b) $\frac{96}{91}$
(c) $\frac{91}{96}$
(d) $-\frac{42}{16}$
3. The solution of $\frac{3}{7}+x=\frac{17}{7}$ is $\qquad$
(a) $x=14$
(b) $x=2$
(c) $x=10$
(d) $x=4$
4. RICE is a Rhombus. The value of $x$ in the figure is $\qquad$

(a) 5
(b) 12
(c) 13
(d) 10
5. The name of the regular polygon of four sides is $\qquad$
(a) Triangle
(b) Square
(c) Rectangle
(d) parallelogram

## SECTION - B

6. Find 3 rational numbers between $1 / 4$ and $1 / 2$
7. Solve $\frac{8 x-3}{3 x}=2$
8. Find the angle measure x in the following figure.

9. Some of two numbers is 95 . If one exceeds the other by 15 , find the number.

## SECTION-C

10. Represent $-2 / 11,-5 / 11$ on the number line.
11. The sum of three consecutive multiples of 8 is 888 . Find the multiples.
12. The ages of Hari and Harry are in the ratio $5: 7$. Four years from now the ratio of their ages will be 3:4. Find their present ages.
13. Find $\frac{-4}{5} X \frac{3}{7} X \frac{15}{16} X\left(-\frac{14}{9}\right)$
14. In a Parallelogram RING, if $m L R=70^{\circ}$, find all the other angles.

## SECTION-D


15. Using appropriate properties, find $\frac{2}{5} X\left(-\frac{3}{7}\right)-\frac{1}{6} X \frac{3}{2}+\frac{1}{14} X \frac{2}{5}$
16. Arjun is twice as old as Shriya. Five years ago his age was three times Shriya' s age. Find their present ages.
17. The adjacent figure HOPE is a Parallelogram. Find the angle measures $x, y$, and $z$ State the properties used to find them.


Identify all the quadrilaterals that have (a) 4 sides of equal length (b) 4 Right angles and show them with figures.
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## SCORING KEY FOR COMMON FORMATIVE ASSESSMENT - I-2014-2015

Class: VIII
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## SECTION - A

1. $b$
2. a
3. $b$
4. a
5. $b$

## SECTION - B

| 6. For making denominator same | $1 / 2$ mark |
| :--- | :--- |
| For writing 3 rational nos. | $1 \frac{1}{2}$ mark |
| 7. $8 x-3=6 x$ cross multiplication | $1 / 2$ mark |
| For correct steps \& for correct answer | $1 \frac{1}{2}$ mark |

8. For some of four angles in a quadrilateral is $360^{\circ} \quad 1 / 2$ mark For correct steps and for finding value of $x \quad 1 \frac{1}{2}$ mark
9. Forming two numbers $---\quad x, x+15$ 1 mark
Finding the numbers
1 mark

SECTION - C

| 10. For drawing number line | 1 mark |
| :--- | :--- |
| For correct representation | 2 marks |

11. If $x$ is a multiple of 8 , the next multiples are $x+8$ and $x+161$ mark
$X+(x+8)+(x+16)=888$
For solving $x \quad 1 / 2$ mark
$X=288, x+8=296, x+16=304 \quad 1 \frac{1}{2}$ marks
12. Let the ages of Hari \& Harry are $5 x, 7 x \quad 1$ mark

According to the problem, $(5 x+4) \div(7 x+4)=3 / 4 \quad 1$ mark
For solving and correct answer
1 mark
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13. For simplification \& correct answer each 1 mark

Answer is $1 / 2$
$\begin{array}{ll}\text { 14. } \mathrm{LR}=\mathrm{LN}=70^{\circ} \text { (Opposite angles of a parallelogram) } & 1 \text { mark } \\ \mathrm{LR} \text { and } \mathrm{LI} \text { are (supplementary angles) } & 1 \text { mark } \\ \mathrm{LI}=180^{\circ}-70^{\circ}=110^{\circ} & 1 \text { mark }\end{array}$
SECTION - D
15. For each correct simplification and correct property 1 mark each
16. Let the age of Shriya is $x$ years. $1 / 2$ mark

Age of Arjun $2 x$ years 1 mark
ATP. $2 x-5=3(x-5) \quad 1$ mark
For finding $x$ and correct answer $1 \frac{112}{2}$ marks
17. $40^{\circ}+z=70^{\circ}$ (corresponding angles of parallel lines HE \& OP) $1 \frac{1}{2}$ mark $Z=30^{\circ}$
$\mathrm{Y}=40^{\circ}$ (Alternate interior oppoisite angles of parallel lines HO \& EP) 1 mark
Linear pair $180^{\circ}-70^{\circ}=110^{\circ} \quad 1 / 2$ mark
Therefore $x=110$ o (Opp. Angles of parallelogram are equal) 1 mark
(OR)
$\begin{array}{cl}\text { Ans: Square and Rhombus including figures } & 2 \text { marks } \\ \text { Square and Rectangle including figures } & 2 \text { marks }\end{array}$
18.

