



INDIAN SCHOOL AL WADI AL KABIR

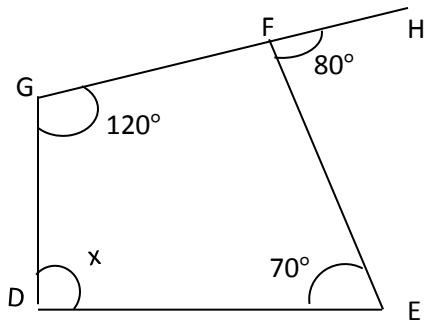
DEPARTMENT OF MATHEMATICS

SUMMER HOLIDAY HOMEWORK 2017-18

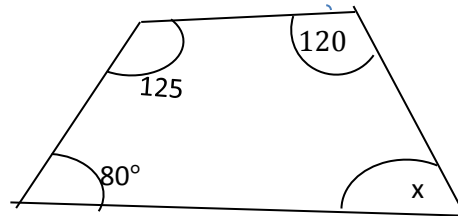
CLASS-VIII

Submission date: 7th Aug 2017

Q.1) Find the value of x :

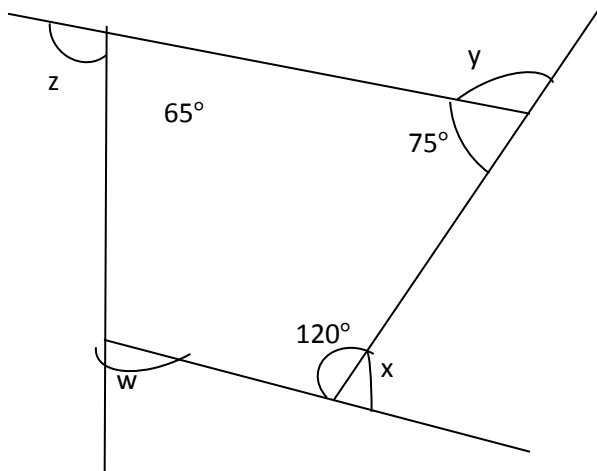


(i)



(ii)

Q-2.) Find w , x , y , z using property



3. PQRS is a parallelogram. One pair of its adjacent angles are in the ratio 3:1. Find all 4 angles of it. $135^\circ, 45^\circ$
4. If three angles of a quadrilateral are 85° , 65° and 50° . Find the fourth angle. 160°
5. If one angle of a parallelogram is 90° , what are the measures of the other three angles? What other name will you give to this parallelogram?

6. ABCD is a rhombus, whose diagonal AC = $(5x + 4)$ cm, is double the diagonal BD = 7 cm. Find the value of x. X = 2cm
7. PQRS is a trapezium with PQ // RS. Use property to find all the four angles, if $\angle P = (3x - 20)^\circ$, $\angle Q = y^\circ$, $\angle R = 65^\circ$ and $\angle S = (2x - 10)^\circ$
8. Two adjacent angles of a parallelogram are in the ratio 2 : 7. Find the measure of each angle.
9. If possible, how many sides does a regular polygon have with each of its exterior angle as 120° ? Give reason for your answer.
10. Name a regular polygon whose each exterior angle measures 36° .
11. Draw a labeled diagram of each of the special quadrilaterals you have learnt and write down at least three properties of each of them.
12. Draw any four polygons, in a tabular form and represent their sides, angle sums and number of diagonals. [Hint : use the formula Angle sum = $(n-2) \times 180^\circ$, number of diagonals = $\frac{n(n-3)}{2}$]
13. Insert 5 rational numbers between $\frac{-3}{5}$ and $\frac{-7}{10}$
14. Draw a number line to represent the given rational numbers on it.
 $\frac{-6}{7}, \frac{-3}{7}, 0, 1, \frac{5}{7}$
15. Use property to solve: $\frac{7}{3} \times \frac{-2}{5} + \frac{7}{3} \times \frac{9}{5} - \frac{5}{9}$
16. Find the value of (i) $[\frac{-3}{7}]^{-2}$ (ii) $(3)^{-4}$
17. Find the multiplicative inverse of 5^{-2} and $(\frac{3}{11})^{-5}$
19. Write 0.000 000 000 079 in standard form.
20. Write 7.89×10^{-5} in usual form
21. Expand using exponents: 137. 1075
22. Construct a quadrilateral ABCD with AB= 3cm, BC= 4cm, CD= 5cm, DA= 5cm, AC= 5cm
23. Construct a quadrilateral DEFG with DE = 4 cm, EF = DF=7cm, DG = EG = 5cm
24. Construct a quadrilateral PQRS with PQ = 5cm, angle Q = 60° , QR = 6.5 cm, Angle R= 90° , RS= 4 cm
25. Construct a (i) square with each side = 5.6 cm (ii) A rectangle ABCD, with AB=7.5cm, BC= 3.5cm (iii) A rhombus ABCD, with AC=8cm, BD = 5cm