Mathematics Project PA-4 Class - VIII Session: 2021-22

Topics: Practical Geometry and Playing with Numbers

General Instructions :
1. Read all the questions carefully. All the questions are compulsory.
2. Maximum marks for this project is 3.

1

Write your full name. *

Tanmay Mehra

2

Write your admission number. *

20140064

3

Select your section of class VIII. *

○ B

○ D

◉ F

4

Hemant's mom gave him 27,225 rupees. Hemant thought that instead of keeping it with himself, he would rather distribute it equally among his 9 siblings. Can he distribute the amount among his 9 siblings Equally? *
(0.5 Points)

◉ Yes

○ No

○ Maybe

5

Find the value of P and Q. *
(0.5 Points)

$$
\begin{array}{rrrrr}
& 3 & P & 4 & 3 \\
+ & 4 & 2 & 7 & Q \\
\hline
& 7 & 9 & 1 & 7 \\
\hline
\end{array}
$$

○ P= 4 and Q= 6

○ P= 4 and Q= 4

○ P= 6 and Q= 6

◉ P= 6 and Q= 4

6

If 68y5 is a multiple of 11, where y is a digit, what is the value of y? *
(0.5 Points)

○ 5

○ 6

◉ 7

○ None of these

7

Which of the following can be constructed? *
(0.5 Points)

○ A rhombus with diagonal 6 cm

○ A parallelogram with sides 3cm, 2 cm and a diagonal of 5cm.

◉ A quadrilateral with sides 5cm, 4 cm, 3 cm and 3.5 cm

○ A trapezium with diagonals 8 cm and 6 cm

8

Re- arrange the following steps to construct a quadrilateral ABCD, where AB= 4cm, BC= 5 cm, CD= 6.5cm, angle B = 105^0 and angle C= 80^0. *
(1 Point)

1   Take point B, draw BC= 5cm from point B. Draw an angle of 105^0 along BX.

2   Locate the point A, 4 cm away on BX. Make angle BCY= 80^0 at C on BC.

3   D is at a distance of 6.5 cm on CY. With C as centre, draw an arc of length 6.5 cm.

4   Mark the point D where arc and CY intersect.

5   Join the point D and A with scale to get AD. ABCD is the required quadrilateral.

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