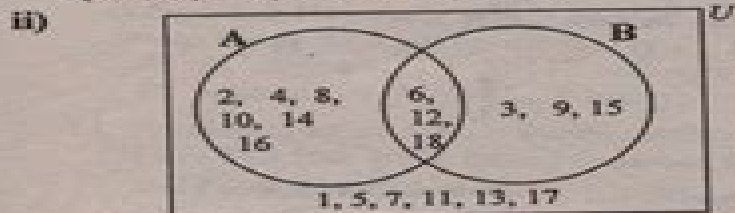


$$(A \cup B) = \{2, 3, 4, 6, 8, 9, 10, 12, 14, 15, 16, 18\}$$

$$(A \cup B)' = \{1, 5, 7, 11, 13, 17\}$$



$$c) \begin{pmatrix} 5 \\ 3 \end{pmatrix} + 2 \begin{pmatrix} x \\ y \end{pmatrix} - \begin{pmatrix} 1 \\ 7 \end{pmatrix} = 0 \Rightarrow \begin{pmatrix} 5 \\ 3 \end{pmatrix} + \begin{pmatrix} 2x \\ 2y \end{pmatrix} - \begin{pmatrix} 1 \\ 7 \end{pmatrix} = 0$$

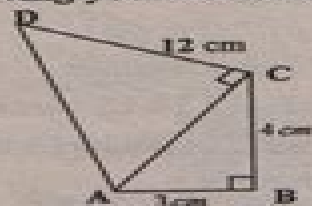
$$5 + 2x = 1, \quad 2x = 1 - 5, \quad 2x = -4, \quad \frac{2x}{2} = \frac{-4}{2}, \quad x = -2$$

$$3 + 2y = -7, \quad 2y = -7 - 3, \quad 2y = -10, \quad \frac{2y}{2} = \frac{-10}{2}, \quad y = -5$$

Hence $x = -2$ and $y = -5$.

Question 2

- a). Find the sum of 2,483.65, 701.532 and 102.7, giving your answer to one decimal place.



Not drawn to scale

- b). In the quadrilateral $ABCD$ above, $|AB| = 3\text{ cm}$, $|BC| = 4\text{ cm}$, $|CD| = 12\text{ cm}$ and angle $ABC = 90^\circ$ and angle $ACD = 90^\circ$. Calculate:

- i). the perimeter of $ABCD$ ii) the area of $ABCD$

Solution

$$a). \text{ The sum} = 2,483.65 + 701.532 + 102.7 = 3,287.882$$

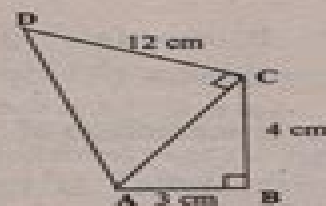
in one decimal place 3,287.9

OR

$$\begin{array}{r} 2,483.65 \\ 701.532 \\ + 102.7 \\ \hline 3,287.882 \end{array}$$

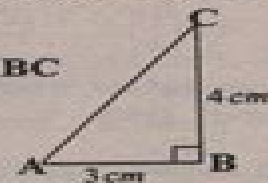
in one decimal place 3,287.9

b)



Triangle ABC and ACD are two right angled triangle. Using Pythagoras Theory to find length of AC and AD .

From triangle ABC



$$\begin{aligned} |AC|^2 &= |AB|^2 + |BC|^2 \\ &= 3^2 + 4^2 = 9 + 16 = 25 \Rightarrow |AC|^2 = 25 \\ |AC| &= \sqrt{25} \Rightarrow |AC| = 5\text{ cm} \end{aligned}$$

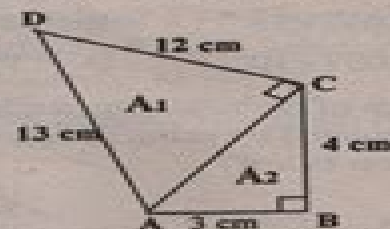
Also from triangle ACD



From Pythagoras theory

$$\begin{aligned} |AD|^2 &= |AC|^2 + |DC|^2 \\ &= 5^2 + 12^2 = 25 + 144 \\ |AD|^2 &= 169 \Rightarrow |AD| = \sqrt{169}, \quad |AD| = 13\text{ cm} \end{aligned}$$

From the diagram



- i) The Perimeter of figure $ABCD$ is the distance around the diagram.

$$\begin{aligned} \text{Perimeter} &= |AB| + |BC| + |DC| + |AD| \\ &= 3\text{ cm} + 4\text{ cm} + 12\text{ cm} + 13\text{ cm} = 32\text{ cm} \end{aligned}$$

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 - The Rise of Digital Reading Bece Exams Questions In Maths 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Bece Exams Questions In Maths 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bece Exams Questions In Maths 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bece Exams Questions In Maths 2014
 - Personalized Recommendations
 - Bece Exams Questions In Maths 2014 User Reviews and Ratings
 - Bece Exams Questions In Maths 2014 and Bestseller Lists
5. Accessing Bece Exams Questions In Maths 2014 Free and Paid eBooks
 - Bece Exams Questions In Maths 2014 Public Domain eBooks
 - Bece Exams Questions In Maths 2014 eBook Subscription Services
 - Bece Exams Questions In Maths 2014 Budget-Friendly Options
6. Navigating Bece Exams Questions In Maths 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Bece Exams Questions In Maths 2014 Compatibility with Devices
 - Bece Exams Questions In Maths 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bece Exams Questions In Maths 2014
 - Highlighting and Note-Taking Bece Exams Questions In Maths 2014
 - Interactive Elements Bece Exams Questions In Maths 2014
8. Staying Engaged with Bece Exams Questions In Maths 2014

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- Participating in Virtual Book Clubs
- Following Authors and Publishers Bece Exams Questions In Maths 2014
- 9. Balancing eBooks and Physical Books Bece Exams Questions In Maths 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bece Exams Questions In Maths 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bece Exams Questions In Maths 2014
 - Setting Reading Goals Bece Exams Questions In Maths 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bece Exams Questions In Maths 2014
 - Fact-Checking eBook Content of Bece Exams Questions In Maths 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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