```java
package cms_tp18;

import javax.swing.*;
import java.awt.*;

@SuppressWarnings("serial")
class Drapeau extends JFrame {
    public Drapeau() {
        setResizable(false);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setTitle("Drapeau");
        int large=258, haut=301;

        Toolkit tkit = Toolkit.getDefaultToolkit();
        Dimension dimMoniteur = tkit.getScreenSize();

        setBounds(dimMoniteur.width/2-large/2,dimMoniteur.height/2-haut/2,large,haut);

        Container conPen = getContentPane();

        setVisible(true);

        System.out.println(getSize().width +"    "+getSize().height);
        System.out.println(conPen.getSize().width +"    "+conPen.getSize().height);

        JPanel panNord = new JPanel();
        panNord.setPreferredSize(new
                    Dimension(conPen.getSize().width,conPen.getSize().height/5));
        panNord.setBackground(Color.red);
        add(panNord, BorderLayout.NORTH);

        JPanel panSud = new JPanel();
        panSud.setPreferredSize(new
                    Dimension(conPen.getSize().width,conPen.getSize().height/5));
        panSud.setBackground(Color.red);
        add(panSud, BorderLayout.SOUTH);
```

```java
JPanel panEst = new JPanel();
panEst.setPreferredSize(new
            Dimension(conPen.getSize().width/5,conPen.getSize().height/5*3));
panEst.setBackground(Color.red);

add(panEst, "East");

JPanel panOuest = new JPanel();
panOuest.setPreferredSize(new
            Dimension(conPen.getSize().width/5,conPen.getSize().height/5*3));
panOuest.setBackground(Color.red);
add(panOuest, "West");

JPanel panCentre = new JPanel(new BorderLayout());
add(panCentre);

    JPanel panCentreCentre = new JPanel();
    panCentreCentre.setBackground(Color.white);
    panCentre.add(panCentreCentre);

    JPanel panCentreNord = new JPanel(new BorderLayout());

        JPanel panCentreNordOuest = new JPanel();
        panCentreNordOuest.setPreferredSize(new
            Dimension(conPen.getSize().width/5, conPen.getSize().height/5));
        panCentreNordOuest.setBackground(Color.red);
        panCentreNord.add(panCentreNordOuest,"West");

        JPanel panCentreNordEst = new JPanel();
        panCentreNordEst.setPreferredSize(new
            Dimension(conPen.getSize().width/5, conPen.getSize().height/5));
        panCentreNordEst.setBackground(Color.red);
        panCentreNord.add(panCentreNordEst,"East");

        JPanel panCentreNordCentre = new JPanel();
        panCentreNordCentre.setBackground(Color.white);
        panCentreNord.add(panCentreNordCentre);
```

```java
                panCentre.add(panCentreNord,"North");
                JPanel panCentreSud = new JPanel(new BorderLayout());

                    JPanel panCentreSudOuest = new JPanel();
                    panCentreSudOuest.setPreferredSize(new
                        Dimension(conPen.getSize().width/5, conPen.getSize().height/5));
                    panCentreSudOuest.setBackground(Color.red);
                    panCentreSud.add(panCentreSudOuest,"West");

                    JPanel panCentreSudEst = new JPanel();
                    panCentreSudEst.setPreferredSize(new
                        Dimension(conPen.getSize().width/5, conPen.getSize().height/5));
                    panCentreSudEst.setBackground(Color.red);
                    panCentreSud.add(panCentreSudEst,"East");

                    JPanel panCentreSudCentre = new JPanel();
                    panCentreSudCentre.setBackground(Color.white);
                    panCentreSud.add(panCentreSudCentre);

                panCentre.add(panCentreSud,"South");

            setVisible(true);
        }//fin du constructeur Drapeau
}//fin de la classe Drapeau


public class CP_TP18Exo1 {
    public static void main(String args[]) {
        JFrame Drapeau = new Drapeau();
    }//fin de la méthode main
}//fin de la classe principale
```