

```

DynamicModule[ {rojo = ■, azul = RGBColor[0, 69 / 256, 124 / 256], 
verde = RGBColor[206 / 256, 210 / 256, 27 / 256], 
fuente = "Gabriola", tama = 30, anc = 775, alto = 350, tam = 20, 
anchrow = 356, loc1 = {15, 15}, loc2 = {50, 60}, area}, 
area = Dynamic@ 
If[  $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])]  $\leq$  100, 
NumberForm[N@ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])], 
{3, 1}], 100];
Panel[Column[{ 
Style[Row[{"El área encerrada es  $\Rightarrow$  ", area, " %"}, Frame  $\rightarrow$  True], 
25, "Multimedia"], 
Grid[{{Rotate[Item[Style[Row[ 
{" $\Leftarrow$  ancho del pliego: 70 cm  $\Rightarrow$ "}], 
tama - 5, azul, FontFamily  $\rightarrow$  fuente]], 90 Degree]  $\times$  Show[ 
Graphics[{Opacity[0.3], Blue, EdgeForm[], 
Rectangle[{0, 0}, {100, 70}]}], 
Graphics[{Red, AbsolutePointSize[7], Point[Dynamic[loc1]], 
Point@Dynamic[loc2], Opacity[0.5], Green, 
Rectangle[Dynamic@loc1, Dynamic@loc2], 
Locator[Dynamic[loc1, (loc1 = Round[#]) &], None], 
Locator[Dynamic[loc2, (loc2 = Round[#]) &], None], 
PlotRange  $\rightarrow$  {{0, 118.9}, {0, 84.1}}}], 
Graphics[{Line[{Dynamic@{loc1[[1]], loc2[[2]] - 2}, 
Dynamic@{loc2[[1]], loc2[[2]] - 2}}], 
Line[{Dynamic@{loc2[[1]] - 2, loc2[[2]]}, Dynamic@{loc2[[1]] - 2, 
loc1[[2]]}}], Style[Text[Dynamic@Abs[loc1[[1]] - loc2[[1]]], 
Dynamic@{(loc1[[1]] + loc2[[1]]) / 2, loc2[[2]]}, {0, 1}], 
20, Background  $\rightarrow$  RGBColor[90 / 256, 217 / 256, 128 / 256]], 
Style[Text[Dynamic@Abs[loc1[[2]] - loc2[[2]]], 
Dynamic@{loc2[[1]], (loc1[[2]] + loc2[[2]]) / 2}, {1, 0}], 
20, Background  $\rightarrow$  RGBColor[90 / 256, 217 / 256, 128 / 256]]}], 
PlotRange  $\rightarrow$  {{0, 100}, {0, 70}}, 
ImageSize  $\rightarrow$  6 {100, 70}]}, {Item[

```

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Style[Row[{ "≤"      largo del pliego: 100 cm "⇒" }, ,
          tama - 5, azul, FontFamily → fuente]], SpanFromLeft} } } ] ] // Deploy]
```

El área encerrada es ⇒ 22.5 %



↑
ancho del pliego: 70 cm
↓

← largo del pliego: 100 cm →

```
DynamicModule[ {rojo = ■, azul = RGBColor[0, 69 / 256, 124 / 256],  
verde = RGBColor[206 / 256, 210 / 256, 27 / 256],  
fuente = "Gabriola", tama = 30, anc = 775, alto = 350, tam = 20,  
anchrow = 356, loc1 = {5, 7}, loc2 = {95, 63}, area},  
area = Dynamic@  
If[  $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])] ≤ 100,  
NumberForm[N@ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])],  
{3, 1}], 100];  
Panel[Column[ {
```

```

Style[Row[{"El área encerrada es ⇒ ", area, " %"}, Frame → True],  

25, "Multimedia"],  

Grid[{{Rotate[Item[Style[Row[  

    {"≤ ancho del pliego: 70 cm ⇒"},  

    tama - 5, azul, FontFamily → fuente]], 90 Degree] × Show[  

    Graphics[{Opacity[0.3], Blue, EdgeForm[],  

    Rectangle[{0, 0}, {100, 70}]}],  

    Graphics[{Red, AbsolutePointSize[7], Point[Dynamic[loc1]],  

    Point@Dynamic[loc2], Opacity[0.5], Green,  

    Rectangle[Dynamic@loc1, Dynamic@loc2],  

    Locator[Dynamic[loc1, (loc1 = Round[#]) &], None],  

    Locator[Dynamic[loc2, (loc2 = Round[#]) &], None],  

    PlotRange → {{0, 118.9}, {0, 84.1}}}],  

    Graphics[{Line[{Dynamic@{loc1[[1]], loc2[[2]] - 2},  

    Dynamic@{loc2[[1]], loc2[[2]] - 2}},  

    Line[{Dynamic@{loc2[[1]] - 2, loc2[[2]]}, Dynamic@{loc2[[1]] - 2,  

    loc1[[2]]}}, Style[Text[Dynamic@Abs[loc1[[1]] - loc2[[1]]],  

    Dynamic@{(loc1[[1]] + loc2[[1]]) / 2, loc2[[2]]}, {0, 1}],  

    20, Background → RGBColor[90 / 256, 217 / 256, 128 / 256]],  

    Style[Text[Dynamic@Abs[loc1[[2]] - loc2[[2]]],  

    Dynamic@{loc2[[1]], (loc1[[2]] + loc2[[2]]) / 2}, {1, 0}],  

    20, Background → RGBColor[90 / 256, 217 / 256, 128 / 256]]],  

    Graphics[{Dashed, Dynamic@Table[Line[{{loc1[[1]] +  

    i (Abs[loc1[[1]] - loc2[[1]]] / 3), loc1[[2]]},  

    {loc1[[1]] + i (Abs[loc1[[1]] - loc2[[1]]] / 3),  

    loc2[[2]]}}], {i, 0, 3}],  

    Dynamic@Line[{{loc1[[1]], loc1[[2]]}, {loc2[[1]], loc1[[2]]}}],  

    Dynamic@  

    Line[{{loc1[[1]], loc2[[2]]}, {loc2[[1]], loc2[[2]]}}]],  

    Graphics[{{Dynamic@Table[Text[Style[Row[{"Parte ", i + 1}],  

    20], {loc1[[1]] + (i / 3 + 1 / 6) Abs[loc1[[1]] - loc2[[1]]],  

    (1 / 2) Abs[loc1[[2]] + loc2[[2]]], {0, 0}], {i, 0, 2}]}}]
  ]]

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PlotRange -> {{0, 100}, {0, 70}},
ImageSize -> 7 {100, 70} ]}, {Item[
Style[Row[{ "==" largo del pliego: 100 cm =="}, 
{tama - 5, azul, FontFamily -> fuente}], SpanFromLeft} }]} ]]] // Deploy]

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El área encerrada es \Rightarrow 72.0 %



\Leftarrow largo del pliego: 100 cm \Rightarrow

\Downarrow ancho del pliego: 70 cm \Updownarrow

```

Deploy@DynamicModule[ {rojo = ■,
azul = RGBColor[0, 69 / 256, 124 / 256], azul2 = RGBColor[179 / 256, 179 / 256, 1],
verde = RGBColor[206 / 256, 210 / 256, 27 / 256],
verde2 = RGBColor[90 / 256, 217 / 256, 128 / 256],
fuente = "Gabriola", tama = 30, anc = 775, alto = 350, tam = 20,
anchrow = 356, loc1 = {5, 7}, loc2 = {95, 63}, area},

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area = Dynamic@If[ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])] ≤ 100, NumberForm[N@ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])]], {3, 1}], 100];

Panel[Column[{Style[Row[{"El área encerrada es ⇒ ", area, " %"}], Frame → True], 25, "Multimedia"], Grid[{{Rotate[Item[Style[Row[{ "≤ ancho del pliego: 70 cm ⇒ "}], tama - 5, azul, FontFamily → fuente]], 90 Degree] × Show[Graphics[{Opacity[0.3], Blue, EdgeForm[], Rectangle[{0, 0}, {100, 70}]}], Graphics[{Red, AbsolutePointSize[7], Point[Dynamic[loc1]], Point@Dynamic[loc2], Opacity[0.5], Green, Rectangle[Dynamic@loc1, Dynamic@loc2], Locator[Dynamic[loc1, (loc1 = Round[#]) &], None], Locator[Dynamic[loc2, (loc2 = Round[#]) &], None], PlotRange → {{0, 118.9}, {0, 84.1}}}], Graphics[{Line[{Dynamic@{loc1[[1]], loc2[[2]] + 2}, Dynamic@{loc2[[1]], loc2[[2]] + 2}}], Style[Text[Dynamic@Abs[loc1[[1]] - loc2[[1]]], Dynamic@{(loc1[[1]] + loc2[[1]]) / 2, loc2[[2]] + 2}, {0, 0}], 20, Background → azul2]}, Graphics[{Line[{Dynamic@{loc2[[1]] - 2, loc2[[2]]}, Dynamic@{loc2[[1]] - 2, loc1[[2]]}}], Style[Text[Dynamic@Abs[loc1[[2]] - loc2[[2]]], Dynamic@{loc2[[1]], (loc1[[2]] + loc2[[2]]) / 2}, {1, 0}], 20, Background → verde2]}], Graphics[{Dashed, Dynamic@Table[Line[{{loc1[[1]] + i (Abs[loc1[[1]] - loc2[[1]]]] / 3, loc1[[2]]}, {loc1[[1]] + i (Abs[loc1[[1]] - loc2[[1]]]] / 3, loc2[[2]]}}], {i, 0, 3}], Dynamic@Line[{{loc1[[1]], loc1[[2]]}, {loc2[[1]], loc1[[2]]}}]}], 100]}];

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Dynamic@Line[{{loc1[[1]], loc2[[2]]}, {loc2[[1]], loc2[[2]]}}}],

Graphics[Dynamic@Table[Text[Style[Row[{"Parte ", i + 1}], 20], {loc1[[1]] + (i/3 + 1/6) Abs[loc1[[1]] - loc2[[1]]], 1/2 Abs[loc1[[2]] + loc2[[2]]]}, {0, 0}], {i, 0, 2}]],

Graphics[Texture[Framed[Style["imagen", 100], Background -> LightRed], EdgeForm[{Thick, Dashed}], Dynamic@Polygon[{{loc1[[1]], loc1[[2]] + 3/5 (Abs[loc1[[2]] - loc2[[2]]]), loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] + 3/5 (Abs[loc1[[2]] - loc2[[2]]]), loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] + (Abs[loc1[[2]] - loc2[[2]]]), {loc1[[1]], loc1[[2]] + (Abs[loc1[[2]] - loc2[[2]]])}}, VertexTextureCoordinates -> {{0, 0}, {1, 0}, {1, 1}, {0, 1}}]]], 

Graphics[Texture[Framed[Style["título", 100], Background -> LightBlue], EdgeForm[{Thick, Dashed}], Dynamic@Polygon[{{loc1[[1]], loc1[[2]] + 2/5 (Abs[loc1[[2]] - loc2[[2]]]), loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] + 2/5 (Abs[loc1[[2]] - loc2[[2]]]), loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] + (Abs[loc1[[2]] - loc2[[2]]])}}]]]

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loc1[[2]] +  $\frac{3}{5}$  (Abs[loc1[[2]] - loc2[[2]]]),

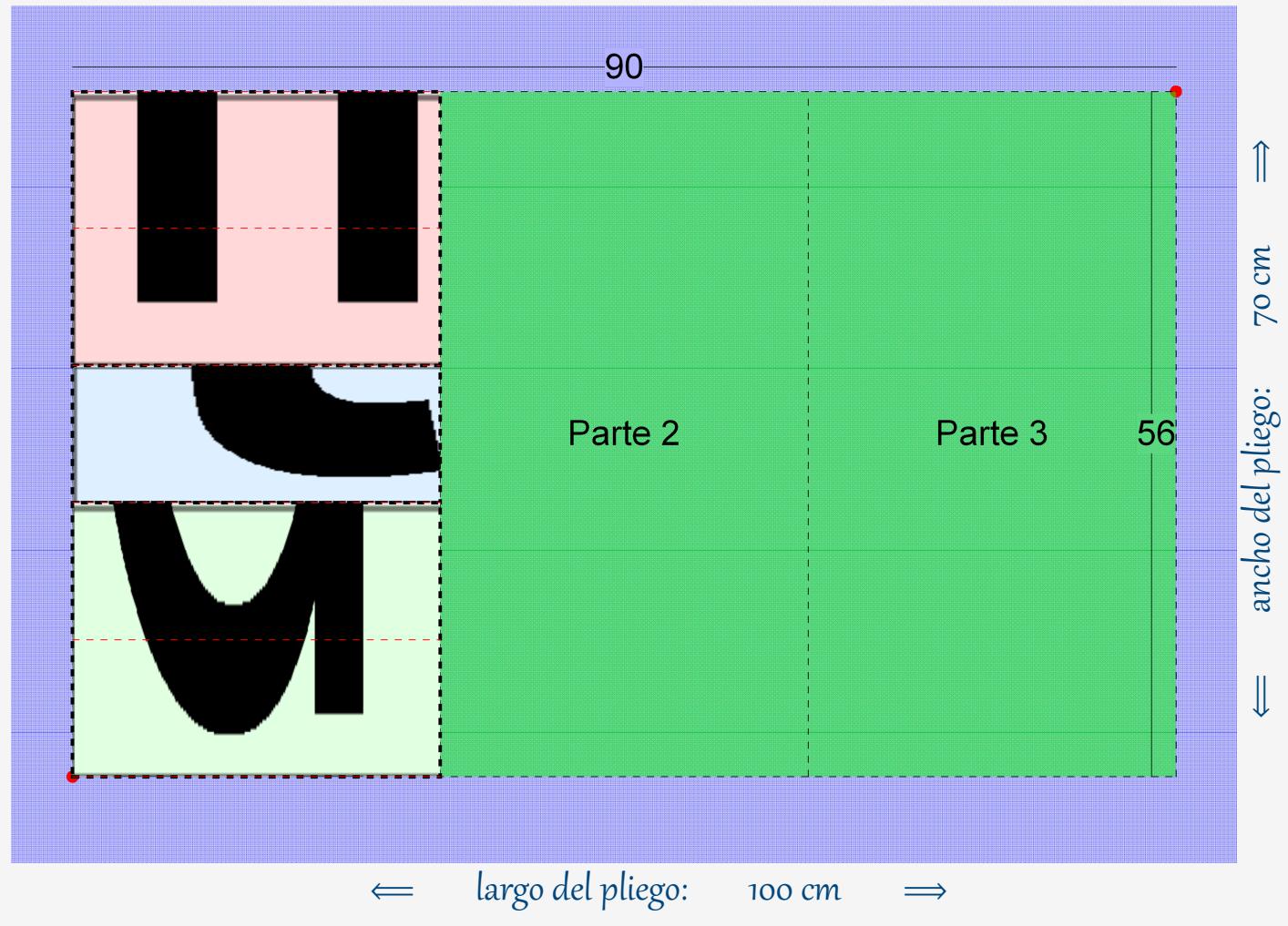
{loc1[[1]], loc1[[2]] +  $\frac{3}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}},

VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}} ]}],

Graphics[{Texture[Framed[Style["descripción", 100], Background → LightGreen], EdgeForm[{Thick, Dashed}], Dynamic@Polygon[{loc1[[1]], loc1[[2]]}, {loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc1[[2]]}, {loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] +  $\frac{2}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}, {loc1[[1]], loc1[[2]] +  $\frac{2}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}], VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}} ]}], Graphics[{Dashed, Red, Dynamic@Table[Line[{loc1[[1]], loc1[[2]] +  $\frac{i}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}, {loc1[[1]] + (Abs[loc1[[1]] - loc2[[1]]]/3), loc1[[2]] +  $\frac{i}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}], {i, 0, 5}]}, PlotRange → {{0, 100}, {0, 70}}, ImageSize → 7 {100, 70}], {Item[Style[Row[{"≤ largo del pliego: 100 cm ⇒"}], tama - 5, azul, FontFamily → fuente]], SpanFromLeft}]}]]]

```

El área encerrada es \Rightarrow 72.0 %



```

Deploy@DynamicModule[{rojo = ■,
azul = RGBColor[0, 69 / 256, 124 / 256], azul2 = RGBColor[179 / 256, 179 / 256, 1],
verde = RGBColor[206 / 256, 210 / 256, 27 / 256],
verde2 = RGBColor[90 / 256, 217 / 256, 128 / 256],
fuente = "Gabriola", tama = 30, anc = 775, alto = 350, tam = 20,
anchrow = 356, loc1 = {5, 7}, loc2 = {95, 63}, area},
area = Dynamic@If[ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])]  $\leq 100$ , NumberForm[N@ $\frac{100}{100 \times 70}$  Abs[(loc1[[1]] - loc2[[1]]) (loc1[[2]] - loc2[[2]])]], {3, 1}], 100];

```

```

Panel[Column[{
  Style[Row[{ "El área encerrada es ⇒      ", area, " %"}, Frame → True],
  25, "Multimedia"],
  Grid[{{Rotate[Item[Style[Row[
    {"≤       ancho del pliego:      70 cm      ⇒"}, ],
    tama - 5, azul, FontFamily → fuente]], 90 Degree] × Show[
    Graphics[{Opacity[0.3], Blue, EdgeForm[],
      Rectangle[{0, 0}, {100, 70}]}], ,
    Graphics[{Red, AbsolutePointSize[7], Point[Dynamic[loc1]],
      Point@Dynamic[loc2], Opacity[0.5], Green,
      Rectangle[Dynamic@loc1, Dynamic@loc2],
      Locator[Dynamic@loc1, (loc1 = Round[#]) &], None],
      Locator[Dynamic@loc2, (loc2 = Round[#]) &], None},
      PlotRange → {{0, 118.9}, {0, 84.1}}}],
    Graphics[{Line[{Dynamic@{loc1[[1]], loc2[[2]] + 2},
      Dynamic@{loc2[[1]], loc2[[2]] + 2}}], ,
      Style[Text[Dynamic@Abs[loc1[[1]] - loc2[[1]]],
        Dynamic@{(loc1[[1]] + loc2[[1]]) / 2, loc2[[2]] + 2},
        {0, 0}], 20, Background → azul2}],
    Graphics[{Line[{Dynamic@{loc2[[1]] - 2, loc2[[2]]},
      Dynamic@{loc2[[1]] - 2, loc1[[2]]}}], ,
      Style[Text[Dynamic@Abs[loc1[[2]] - loc2[[2]]],
        Dynamic@{loc2[[1]], (loc1[[2]] + loc2[[2]]) / 2},
        {1, 0}], 20, Background → verde2}],
    Graphics[{Dashed, Dynamic@Table[Line[{loc1[[1]] +
      i (Abs[loc1[[1]] - loc2[[1]]] / 3), loc1[[2]]},
      {loc1[[1]] + i (Abs[loc1[[1]] - loc2[[1]]] / 3),
      loc2[[2]]}], {i, 0, 3}],
    Dynamic@Line[{loc1[[1]], loc1[[2]]}, {loc2[[1]], loc1[[2]]}],
    Dynamic@
      Line[{loc1[[1]], loc2[[2]]}, {loc2[[1]], loc2[[2]]}]}}},
    Graphics[{{Dynamic@Table[Text[Style[Row[{ "Parte ", i + 1}],
      20], {loc1[[1]] + (i / 3 + 1 / 6) Abs[loc1[[1]] - loc2[[1]]],
      loc2[[1]]}], {i, 1, 3}]}]
  ]]
}

```

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 $\frac{1}{2} \text{Abs}[\text{loc1}[[2]] + \text{loc2}[[2]]]\}, \{0, 0\}], \{i, 0, 2\}\}\}\},$ 
Graphics[{\{Texture[Framed[Style["imagen", 100],  

Background \rightarrow LightRed]], EdgeForm[{Thick, Dashed}],  

Dynamic@Polygon[\{\{\text{loc1}[[1]], \text{loc1}[[2]] +  

 $\frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\},$   

\{\text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],  

\text{loc1}[[2]] + \frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\},  

\{\text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],  

\text{loc1}[[2]] + (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]])\},  

\{\text{loc1}[[1]], \text{loc1}[[2]] + (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\}\},  

VertexTextureCoordinates \rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\}\}\}],  

Graphics[{\{Texture[Framed[Style["título", 100],  

Background \rightarrow LightBlue]], EdgeForm[{Thick, Dashed}],  

Dynamic@Polygon[\{\{\text{loc1}[[1]], \text{loc1}[[2]] +  

 $\frac{2}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\},$   

\{\text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],  

\text{loc1}[[2]] + \frac{2}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\},  

\{\text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],  

\text{loc1}[[2]] + \frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\},  

\{\text{loc1}[[1]], \text{loc1}[[2]] + \frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]])\}\},  

VertexTextureCoordinates \rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\}\}\}],
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Graphics[{{Texture[Framed[Style["descripción", 100],
Background → LightGreen]], EdgeForm[{Thick, Dashed}],
Dynamic@Polygon[{{loc1[[1]], loc1[[2]]},
{loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc1[[2]]},
{loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]],
loc1[[2]] +  $\frac{2}{5}$  (Abs[loc1[[2]] - loc2[[2]]])},
{loc1[[1]], loc1[[2]] +  $\frac{2}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}]},
VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}}]}],
Graphics[{{Dashed, Red, Dynamic@Table[Line[{{loc1[[1]],
loc1[[2]] +  $\frac{i}{5}$  (Abs[loc1[[2]] - loc2[[2]]])},
{loc1[[1]] + (Abs[loc1[[1]] - loc2[[1]]] / 3),
loc1[[2]] +  $\frac{i}{5}$  (Abs[loc1[[2]] - loc2[[2]]])}]}, {i, 0, 5}]}],
Graphics[{{Texture[Table[{"Torta de chocolate para nueve personas", "Ingredientes", "Cantidad y medida"}, {{"Mantequilla", "100 gramos"}, {"Azúcar", "1 taza"}, {"Huevo", "4 unidades"}, {"Cacao", "6 cucharadas"}, {"Harina de trigo", "1 taza y media"}, {"Bicarbonato", "13 gramos"}, {"Polvo de hornear", "20 gramos"}, {"Jugo de naranja", "\frac{1}{2} de taza"}, {"Leche", "\frac{1}{2} de taza"}]]}, EdgeForm[{Thick, Dashed}],
Dynamic@Polygon[{{loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]],
loc1[[2]] +  $\frac{2}{3}$  (Abs[loc1[[2]] - loc2[[2]]])},
{loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]],
loc1[[2]] +  $\frac{2}{3}$  (Abs[loc1[[2]] - loc2[[2]]])},
{loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc2[[2]]},
{loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc2[[2]]}]}]

```

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VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}} } } } ] ,
```

Graphics [{ **Texture** [

Torta de chocolate para cuatro personas	
Ingrediente	Cantidad y medida
Mantequilla	44.5 gramos
Azúcar	media taza
Huevos	2 unidades
Cocoa	2 cucharadas y media
Horno de horno	media taza y una cucharada
Leche	1/2 taza
Pólvora de hornear	9 gramos
Jugo de naranja	una cuchara
Leche	1/2 de taza

```
Dynamic@Polygon [ { { loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]],  

loc1[[2]] +  $\frac{1}{3}$  (Abs[loc1[[2]] - loc2[[2]]]) },  

{ loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]],  

loc1[[2]] +  $\frac{1}{3}$  (Abs[loc1[[2]] - loc2[[2]]]) },  

{ loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]],  

loc1[[2]] +  $\frac{2}{3}$  (Abs[loc1[[2]] - loc2[[2]]]) },  

{ loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]],  

loc1[[2]] +  $\frac{2}{3}$  (Abs[loc1[[2]] - loc2[[2]]]) } } ,  

VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}} } } ] ,
```

Graphics [{ **Texture** [



```
Dynamic@  

Polygon [ { { loc1[[1]] +  $\frac{1}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] },  

{ loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]], loc1[[2]] },  

{ loc1[[1]] +  $\frac{2}{3}$  Abs[loc1[[1]] - loc2[[1]]],  

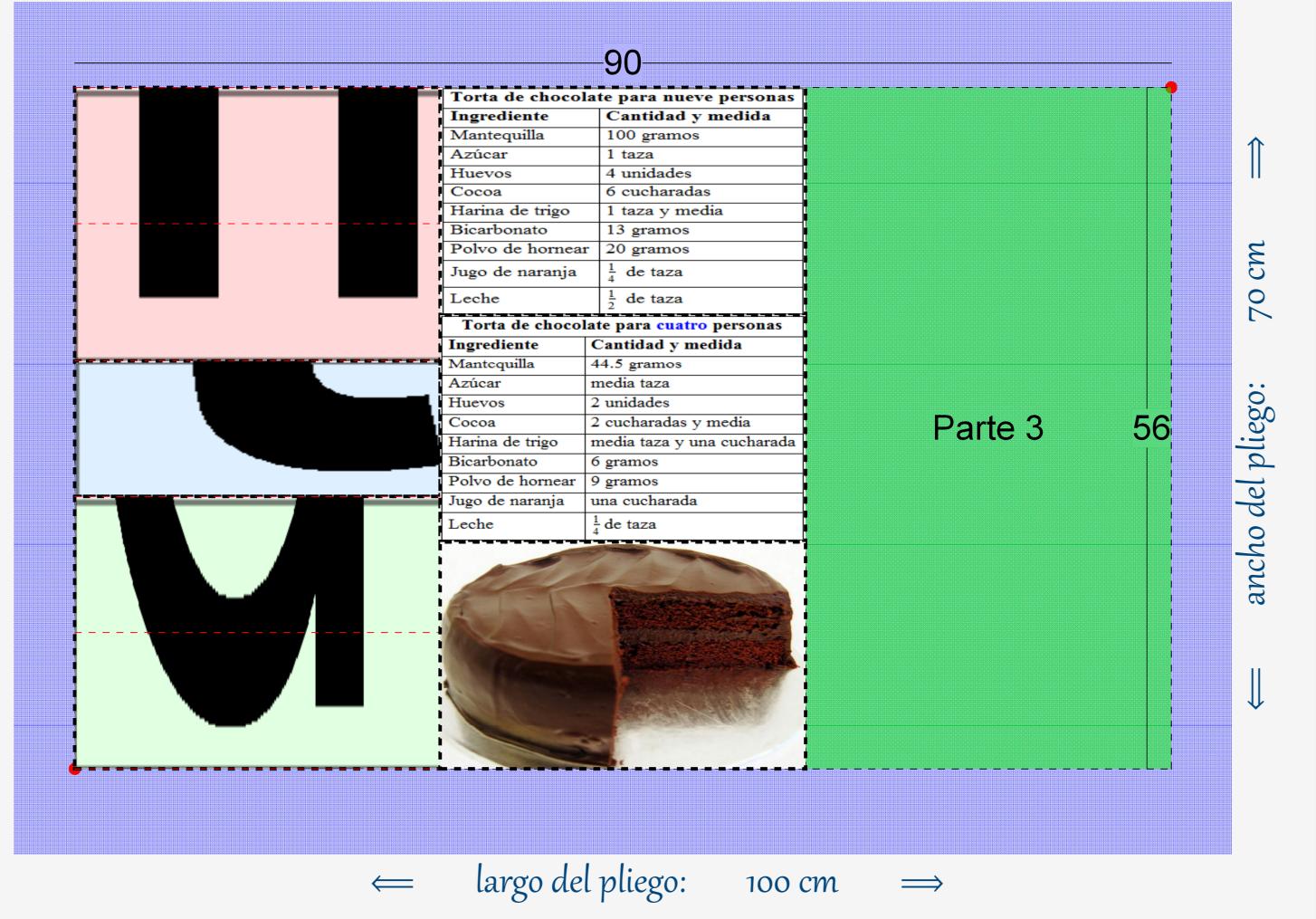
loc1[[2]] +  $\frac{1}{3}$  (Abs[loc1[[2]] - loc2[[2]]]) } ,
```

```

 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{1}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\text{VertexTextureCoordinates} \rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\} \}],$ 
 $\text{PlotRange} \rightarrow \{\{0, 100\}, \{0, 70\}\},$ 
 $\text{ImageSize} \rightarrow 7 \{100, 70\} \}], \{\text{Item}[$ 
 $\text{Style}[\text{Row}[{"\leqslant" \quad \text{largo del pliego:} \quad 100 \text{ cm} \quad "\Rightarrow"},$ 
 $\text{tama} - 5, \text{azul, FontFamily} \rightarrow \text{fuente}]], \text{SpanFromLeft}\}]\}]\}]]]$ 

```

El área encerrada es $\Rightarrow 72.0\%$



Deploy@DynamicModule[{rojo = ■,

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azul = RGBColor[0, 69 / 256, 124 / 256], azul2 = RGBColor[179 / 256, 179 / 256, 1],
verde = RGBColor[206 / 256, 210 / 256, 27 / 256],
verde2 = RGBColor[90 / 256, 217 / 256, 128 / 256],
fuente = "Gabriola", tama = 30, anc = 775, alto = 350, tam = 20,
anchrow = 356, loc1 = {5, 7}, loc2 = {95, 63}, area},
area = Dynamic@If[ $\frac{100}{100 \times 70} \text{Abs}[(\text{loc1}[[1]] - \text{loc2}[[1]])$ 
 $(\text{loc1}[[2]] - \text{loc2}[[2]])] \leq 100$ , NumberForm[N@ $\frac{100}{100 \times 70}$ 
 $\text{Abs}[(\text{loc1}[[1]] - \text{loc2}[[1]]) (\text{loc1}[[2]] - \text{loc2}[[2]])]$ , {3, 1}], 100];
Panel[Column[{

Style[Row[{"El área encerrada es ⇒      ", area, " %"}], Frame → True],
25, "Multimedia"],

Grid[{{Rotate[Item[Style[Row[
{"≤      ancho del pliego:      70 cm      ⇒"},

tama - 5, azul, FontFamily → fuente]], 90 Degree] × Show[

Graphics[{Opacity[0.3], Blue, EdgeForm[],

Rectangle[{0, 0}, {100, 70}]}, ],
Graphics[{Red, AbsolutePointSize[7], Point[Dynamic[loc1]],

Point@Dynamic[loc2], Opacity[0.5], Green,
Rectangle[Dynamic@loc1, Dynamic@loc2],
Locator[Dynamic@loc1, (loc1 = Round[#]) &], None],
Locator[Dynamic@loc2, (loc2 = Round[#]) &], None],
PlotRange → {{0, 118.9}, {0, 84.1}}}, ],
Graphics[{Line[{Dynamic@{loc1[[1]], loc2[[2]] + 2},

Dynamic@{loc2[[1]], loc2[[2]] + 2}}],,

Style[Text[Dynamic@Abs[loc1[[1]] - loc2[[1]]],

Dynamic@{(loc1[[1]] + loc2[[1]]) / 2, loc2[[2]] + 2},

{0, 0}], 20, Background → azul2}],],
Graphics[{Line[{Dynamic@{loc2[[1]] + 2, loc2[[2]]},

Dynamic@{loc2[[1]] + 2, loc1[[2]]}}],,

Style[Text[Dynamic@Abs[loc1[[2]] - loc2[[2]]],

Dynamic@{loc2[[1]] + 2, (loc1[[2]] + loc2[[2]]) / 2},

{0, 0}], 20, Background → azul2}],]
}}]}]]]

```

```

Graphics[{Dashed, Dynamic@Table[Line[{{loc1[[1]] +
    i (Abs[loc1[[1]] - loc2[[1]]] / 3), loc1[[2]]},
    {loc1[[1]] + i (Abs[loc1[[1]] - loc2[[1]]] / 3),
    loc2[[2]]}}], {i, 0, 3}],
Dynamic@Line[{{loc1[[1]], loc1[[2]]}, {loc2[[1]], loc1[[2]]}}],
Dynamic@
  Line[{{loc1[[1]], loc2[[2]]}, {loc2[[1]], loc2[[2]]}}]],
Graphics[{{Dynamic@Table[Text[Style[Row[{"Parte ", i + 1}],
20], {loc1[[1]] + (i/3 + 1/6) Abs[loc1[[1]] - loc2[[1]]],
1/2 Abs[loc1[[2]] + loc2[[2]]], {0, 0}], {i, 0, 2}]}}},
Graphics[{{Texture[Framed[Style["imagen", 100],
Background → LightRed]], EdgeForm[{Thick, Dashed}],
Dynamic@Polygon[{{loc1[[1]], loc1[[2]] +
    3/5 (Abs[loc1[[2]] - loc2[[2]]]),
{loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]],
loc1[[2]] + 3/5 (Abs[loc1[[2]] - loc2[[2]]]),
{loc1[[1]] + 1/3 Abs[loc1[[1]] - loc2[[1]]],
loc1[[2]] + (Abs[loc1[[2]] - loc2[[2]]]),
{loc1[[1]], loc1[[2]] + (Abs[loc1[[2]] - loc2[[2]]])},
VertexTextureCoordinates → {{0, 0}, {1, 0}, {1, 1}, {0, 1}}}]}}},
Graphics[{{Texture[Framed[Style["título", 100],
Background → LightBlue]], EdgeForm[{Thick, Dashed}],
Dynamic@Polygon[{{loc1[[1]], loc1[[2]] +
    2/5 (Abs[loc1[[2]] - loc2[[2]]])}}]}]

```

```

 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{2}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\left\{ \text{loc1}[[1]], \text{loc1}[[2]] + \frac{3}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\} \Big\},$ 
 $\text{VertexTextureCoordinates} \rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\} \Big\} \Big\},$ 
Graphics[{\{Texture[Framed[Style["descripción", 100],
Background → LightGreen]], EdgeForm[{Thick, Dashed}],
```

Dynamic@Polygon[{\{loc1[[1]], loc1[[2]]},

 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]], \text{loc1}[[2]] \right\},$
 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$
 $\text{loc1}[[2]] + \frac{2}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$
 $\left\{ \text{loc1}[[1]], \text{loc1}[[2]] + \frac{2}{5} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\} \Big\},$
 $\text{VertexTextureCoordinates} \rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\} \Big\} \Big\},$

Graphics[{\{Texture[

Torta de chocolate para nueve personas	
Ingrediente	Cantidad y medida
Mantequilla	100 gramos
Azúcar	1 taza
Huevos	4 unidades
Leche	6 cucharadas
Harina de trigo	1 taza y media
Bicarbonato	1/3 gramos
Pólvora de hornear	20 gramos
Jugo de naranja	1/2 de taza
Leche	1/2 de taza

Dynamic@Polygon[{\{loc1[[1]] + $\frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]]$,

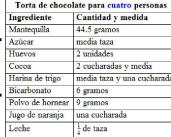
 $\text{loc1}[[2]] + \frac{2}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \Big\},$
 $\left\{ \text{loc1}[[1]] + \frac{2}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$
 $\text{loc1}[[2]] + \frac{2}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \Big\},$

```

 $\left\{ \text{loc1}[[1]] + \frac{2}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]], \text{loc2}[[2]] \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]], \text{loc2}[[2]] \right\} \right\},$ 
VertexTextureCoordinates  $\rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\} \Big] \Big] \Big],$ 

Graphics  $\left[ \left\{ \text{Texture} \left[ \begin{array}{|c|c|} \hline \text{Torta de chocolate para cuatro personas} & \\ \hline \text{Ingrediente} & \text{Cantidad y medida} \\ \hline \text{Mantequilla} & 44.5 \text{ gramos} \\ \hline \text{Azúcar} & \text{media taza} \\ \hline \text{Huevos} & 2 \text{ unidades} \\ \hline \text{Cocido} & 2 \text{ cucharadas y media} \\ \hline \text{Flor de harina de trigo} & \text{media taza y una cuchara} \\ \hline \text{Bicarbonato} & 6 \text{ gramos} \\ \hline \text{Polvo de hornear} & 9 \text{ gramos} \\ \hline \text{Jugo de naranja} & \text{una cucharda} \\ \hline \text{Leche} & \frac{1}{2} \text{ de taza} \\ \hline \end{array} \right] \right], \text{EdgeForm}[\{\text{Thick}, \text{Dashed}\}],$ 

```



```

Dynamic@Polygon  $\left[ \left\{ \left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{1}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{2}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{1}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{2}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{2}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]],$ 
 $\text{loc1}[[2]] + \frac{2}{3} (\text{Abs}[\text{loc1}[[2]] - \text{loc2}[[2]]]) \right\} \right\},$ 
VertexTextureCoordinates  $\rightarrow \{\{0, 0\}, \{1, 0\}, \{1, 1\}, \{0, 1\}\} \Big] \Big] \Big],$ 

```

```

Graphics  $\left[ \left\{ \text{Texture} \left[ \begin{array}{|c|} \hline \text{A slice of chocolate cake with frosting on top.} \\ \hline \end{array} \right] \right], \text{EdgeForm}[\{\text{Thick}, \text{Dashed}\}],$ 

```



```

Dynamic@
Polygon  $\left[ \left\{ \left\{ \text{loc1}[[1]] + \frac{1}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]], \text{loc1}[[2]] \right\},$ 
 $\left\{ \text{loc1}[[1]] + \frac{2}{3} \text{Abs}[\text{loc1}[[1]] - \text{loc2}[[1]]], \text{loc1}[[2]] \right\},$ 

```


El área encerrada es $\Rightarrow 72.0\%$

Torta de chocolate para nueve personas	
Ingrediente	Cantidad y medida
Mantequilla	100 gramos
Azúcar	1 taza
Huevos	4 unidades
Cocoa	6 cucharadas
Harina de trigo	1 taza y media
Bicarbonato	13 gramos
Polvo de hornear	20 gramos
Jugo de naranja	$\frac{1}{4}$ de taza
Leche	$\frac{1}{2}$ de taza

Torta de chocolate para cuatro personas	
Ingrediente	Cantidad y medida
Mantequilla	44.5 gramos
Azúcar	media taza
Huevos	2 unidades
Cocoa	2 cucharadas y media
Harina de trigo	media taza y una cucharada
Bicarbonato	6 gramos
Polvo de hornear	9 gramos
Jugo de naranja	una cucharada
Leche	$\frac{1}{4}$ de taza

\Leftarrow
largo del pliego: 100 cm
 \Rightarrow

$$\begin{aligned}
 & -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(2 \div \frac{3}{2} \right) 4 - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(\frac{4}{3} \right) 4 - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{4}{3} - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ -\frac{7}{3} \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \left(-\frac{7}{3} \right) \\
 & = -\frac{9}{3} \\
 & = -3
 \end{aligned}$$

$$\begin{aligned}
 & 3 \left(\frac{2}{3} - \frac{1}{3} \right) 4 - 2 \left(\frac{1}{2} \div \frac{1}{3} \right) \frac{1}{2} \\
 & = 3 \left(\frac{1}{3} \right) 4 - 2 \left(\frac{3}{2} \right) \frac{1}{2} \\
 & = 4 - \frac{3}{2} \\
 & = \frac{5}{2}
 \end{aligned}$$

$$\begin{aligned}
 & \Leftarrow \text{ ancho del pliego: } 70 \text{ cm} \Rightarrow
 \end{aligned}$$

$$\begin{aligned}
 & -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(2 \div \frac{3}{2} \right) 4 - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(\frac{4}{3} \right) 4 - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{4}{3} - 2 \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \frac{2}{3} \left\{ -\frac{7}{3} \right\} \frac{3}{2} \\
 & = -\frac{2}{3} + \left(-\frac{7}{3} \right) \\
 & = -\frac{9}{3} \\
 & = -3
 \end{aligned}$$

$$3 \left(\frac{2}{3} - \frac{1}{3} \right) 4 - 2 \left(\frac{1}{2} \div \frac{1}{3} \right) \frac{1}{2}$$

$$= 3 \left(\frac{1}{3} \right) 4 - 2 \left(\frac{3}{2} \right) \frac{1}{2}$$

$$= 4 - \frac{3}{2}$$

$$= \frac{5}{2}$$

$$- \frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(2 \div \frac{3}{2} \right) 4 - 2 \right\} \frac{3}{2}$$

$$= - \frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(\frac{4}{3} \right) 4 - 2 \right\} \frac{3}{2}$$

$$= - \frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{4}{3} - 2 \right\} \frac{3}{2}$$

$$= - \frac{2}{3} + \frac{2}{3} \left\{ - \frac{7}{3} \right\} \frac{3}{2}$$

$$= - \frac{2}{3} + \left(- \frac{7}{3} \right)$$

$$= - \frac{9}{3}$$

$$= -3$$

$$3 \left(\frac{2}{3} - \frac{1}{3} \right) 4 - 2 \left(\frac{1}{2} \div \frac{1}{3} \right) \frac{1}{2}$$

$$= 3 \left(\frac{3}{6} \right) 4 - 2 \left(\frac{3}{2} \right) \frac{1}{2}$$

$$= 6 - \frac{3}{2}$$

$$= \frac{9}{2}$$

$$\begin{aligned}& -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(2 \div \frac{3}{2} \right) 4 - 2 \right\} \frac{3}{2} \\& = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{1}{4} \left(\frac{4}{3} \right) 4 - 2 \right\} \frac{3}{2} \\& = -\frac{2}{3} + \frac{2}{3} \left\{ 1 - \frac{4}{3} - 2 \right\} \frac{3}{2} \\& = -\frac{2}{3} + \frac{2}{3} \left\{ -\frac{7}{3} \right\} \frac{3}{2} \\& = -\frac{2}{3} + \left(-\frac{7}{3} \right) \\& = -\frac{9}{3} \\& = -3\end{aligned}$$

$$\begin{aligned}& 3 \left(\frac{2}{3} - \frac{1}{3} \right) 4 - 2 \left(\frac{1}{2} \div \frac{1}{3} \right) \frac{1}{2} \\& = 3 \left(\frac{1}{3} \right) 4 - 2 \left(\frac{3}{2} \right) \frac{1}{2} \\& = 4 - \frac{3}{2} \\& = \frac{5}{2}\end{aligned}$$