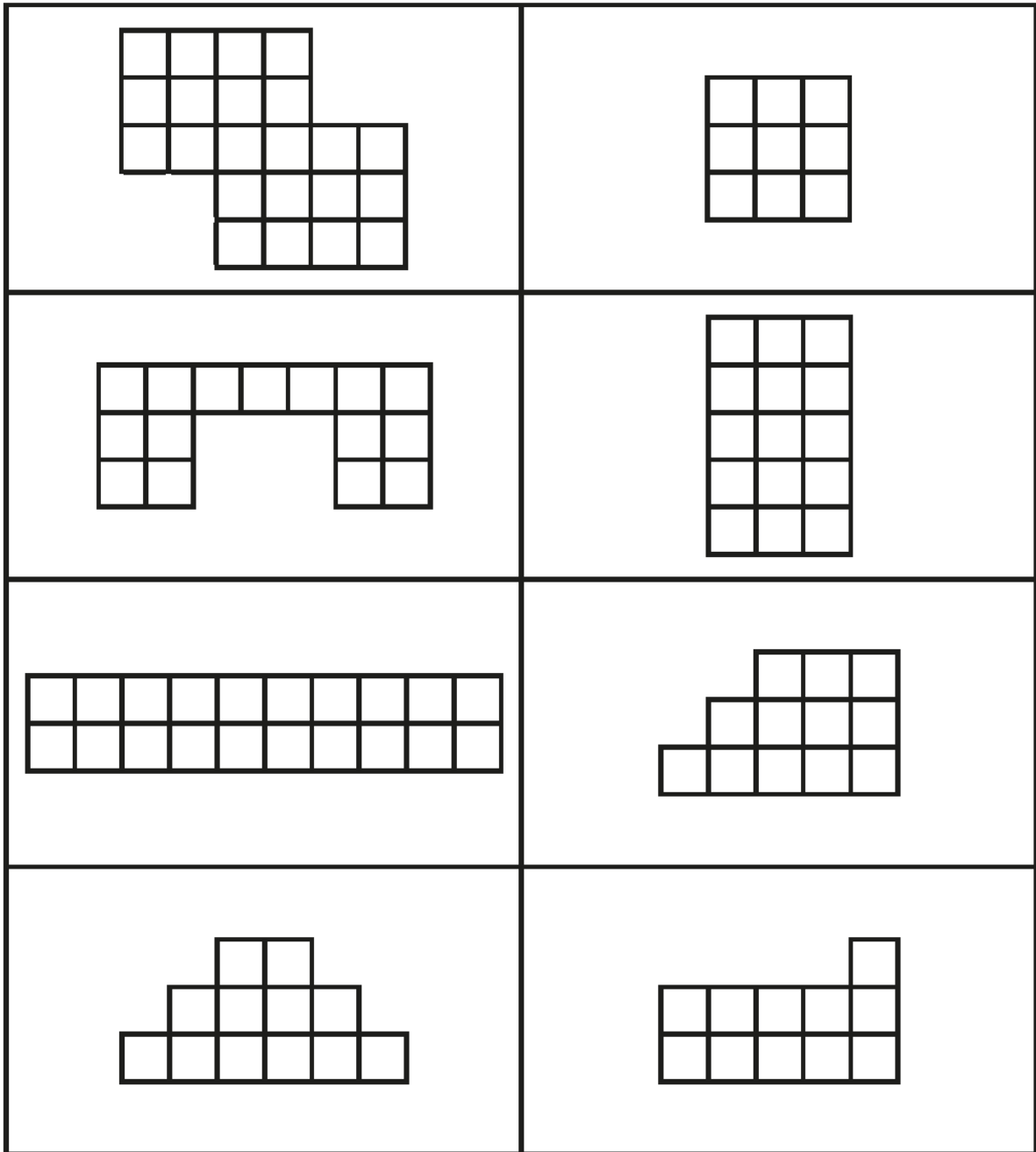
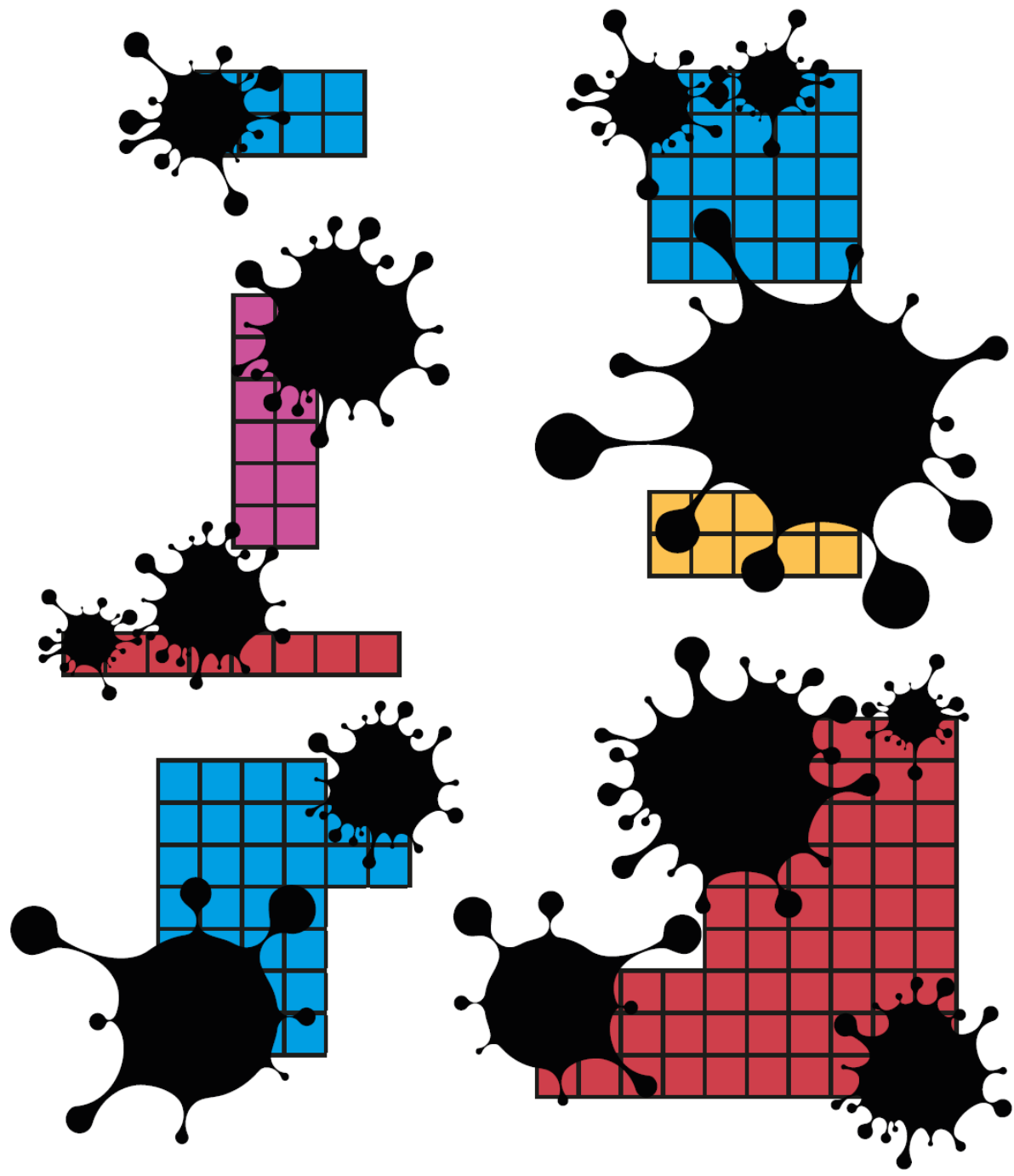


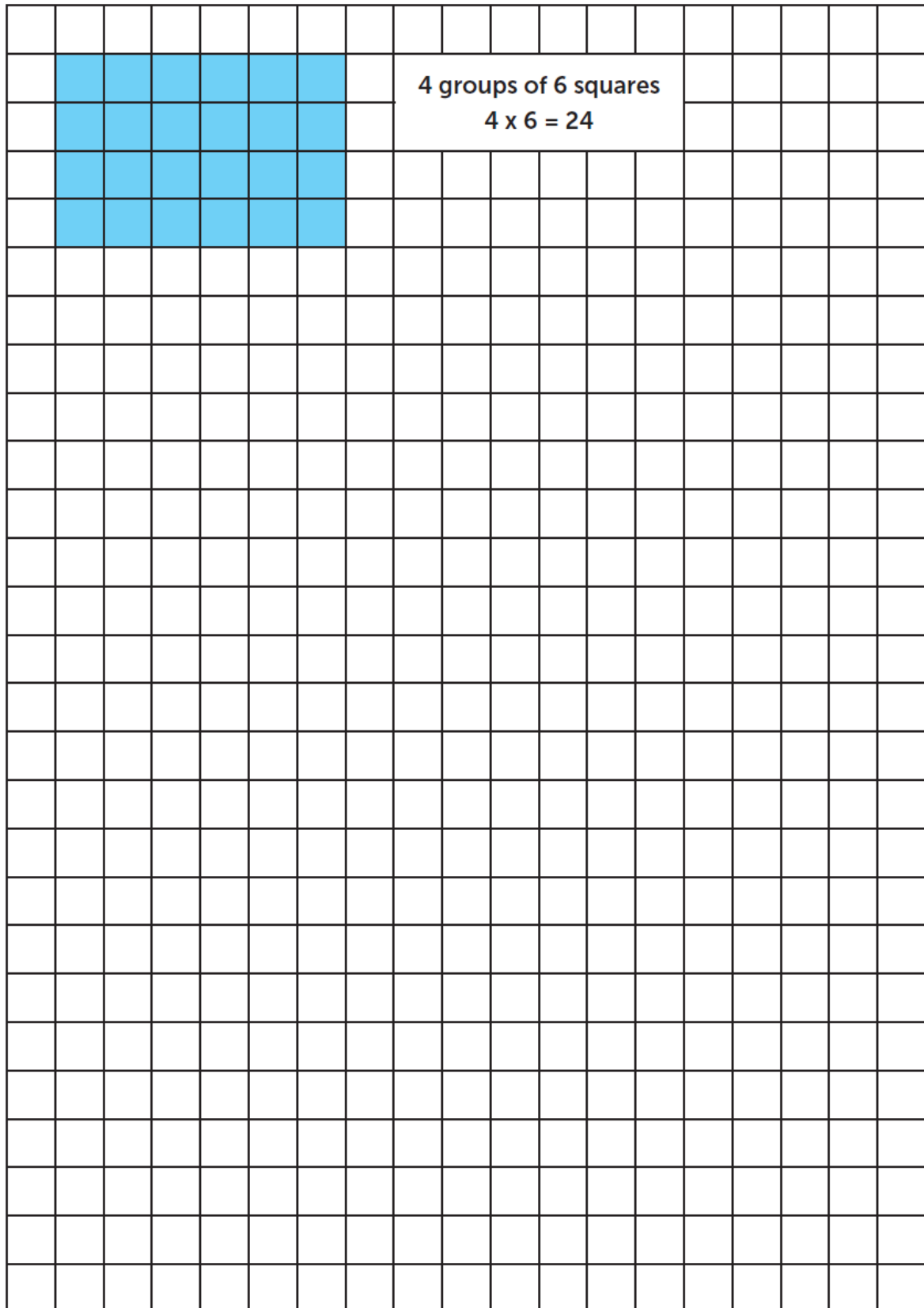
What is the area of each of these shapes? Can you order them from the largest to the smallest area?



Someone has dropped ink over these shapes. Can you still work out their area?



How many rectangles can you make with an area of 24 squares? What are the times tables facts that go with each rectangle? One has been done for you. How many more are possible?



Newspaper challenge. Using the diagram on the next page, can you answer these questions?



Newspaper Area Task

On the following page is the editor's template for a newspaper's next front page.

Complete the table to show how much area is to be filled by the different types of content.

Content type	Total Area (squares covered)
Photographic content	
Advertisements	
Headlines	
Text content	
Newspaper name	

Fill in the sentences to make them true.

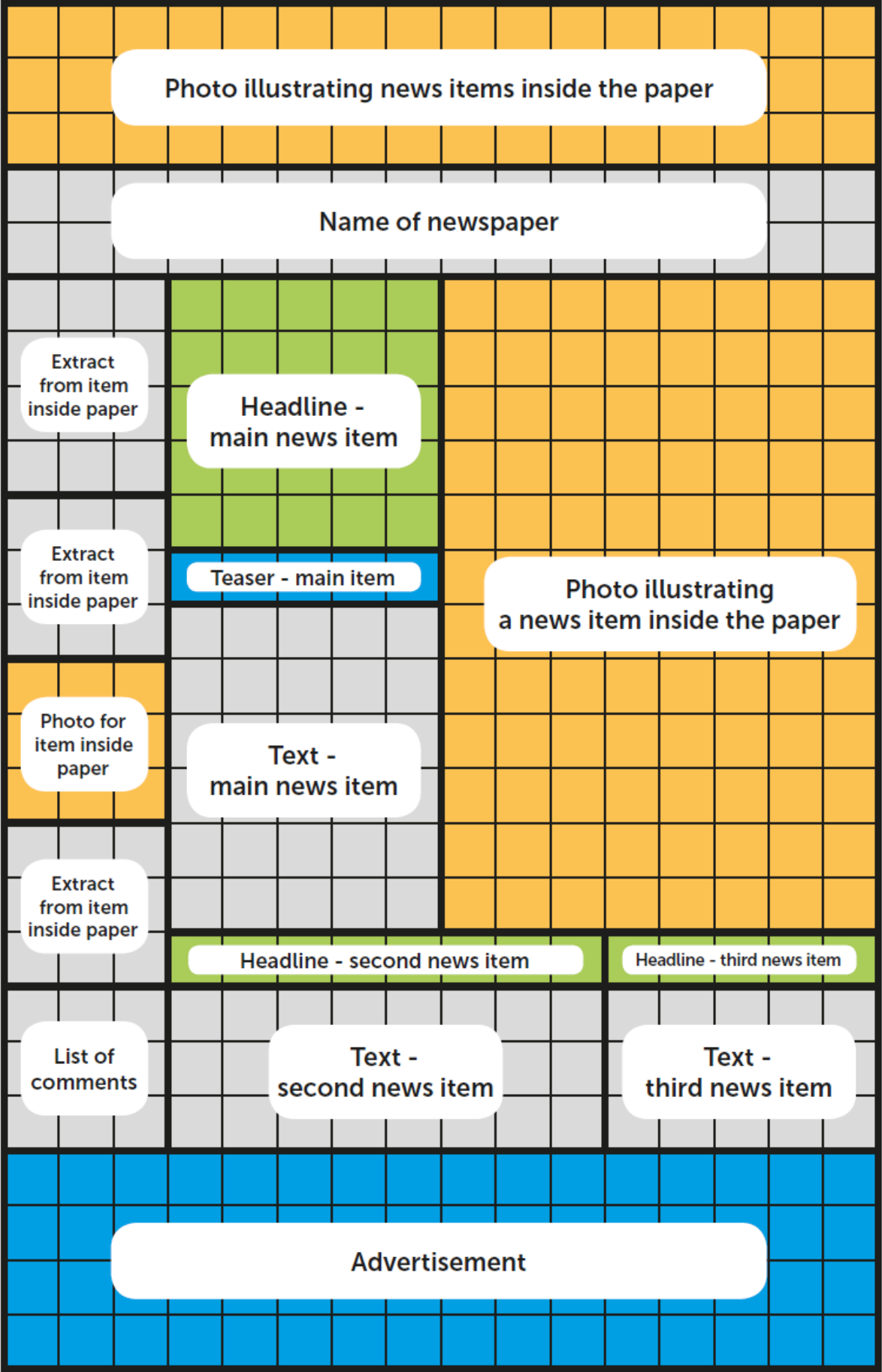
_____ covered the greatest area of the front page.

_____ covered more area than _____.

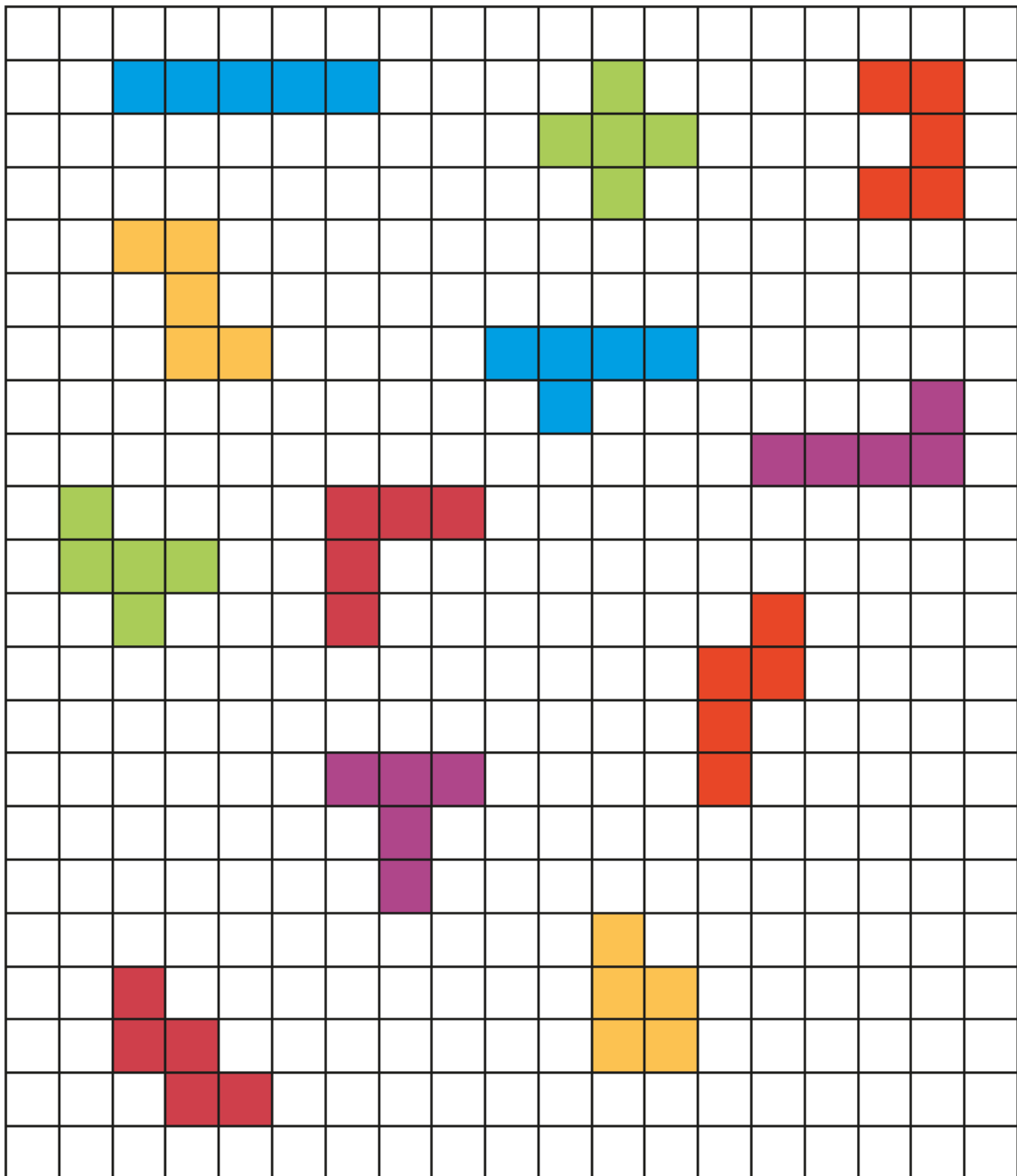
_____ took up the least area on the page.

Did anything surprise you about how the area was used on the front page?
For example, were you expecting more area to be filled with text?

You could design a different front page where each type of content covers the same area but is arranged differently.



What is the perimeter of these shapes?



All of the pentominoes have the same area
– 5 squares.

Which do you estimate has the greatest
perimeter?

Sort the pentominoes by length of perimeter.



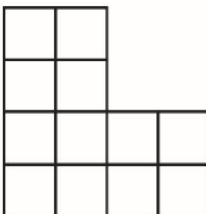

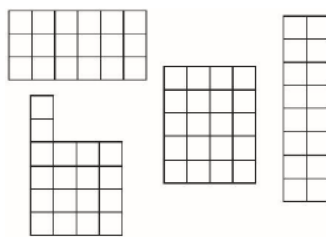






Reasoning challenge

Read what these children think about area and perimeter. Are they correct? What do you think? Can you explain your reasoning?



Final questions

Now test your knowledge with these final questions.

Destination Questions 		
<p>1 </p> <p>What is the area of this shape in squares?</p> 	<p>2 </p> <p>Tick the shapes that have an area of 18 squares.</p> 	
<p>3 </p> <p>A rectangle has a length of 6 squares and a width of 4 squares.</p> <p>What is the area of the rectangle?</p>	<p>4 </p> <p>John says a rectangle can't have an area of 13 squares.</p> <p>Explain why he is incorrect.</p>	<p>5 </p> <p>How many shapes can you draw that have an area of 12 squares?</p> <p>List the related times table facts.</p>
<p>6 </p> <p>Jane wants to use 10 square slabs in her patio.</p> <p>She wants a rectilinear patio.</p> <p>Draw 3 possible patio shapes she could make with her 10 slabs.</p>	<p>7 </p> <p>The perimeter of a shape is 18 cm and the area of the shape is 13 squares.</p> <p>Draw the shape.</p>	<p>8 </p> <p>Using an area of 8 squares, draw the rectilinear shape with the shortest possible perimeter.</p>