lib/mpl_toolkits/axes_grid1/axes_size.py - Entity Definition

```python
class Scaled(_Base):
    """
    Simple scaled(?) size with absolute part = 0 and
    relative part = *scalable_size*.
    """
    def __init__(self, scalable_size):
        self._scalable_size = scalable_size
    def get_size(self, renderer):
        rel_size = self._scalable_size
        abs_size = 0.
        return rel_size, abs_size
Scalable = Scaled
def _get_axes_aspect(ax):
    aspect = ax.get_aspect()
    if aspect == "auto":
        aspect = 1.
    return aspect
```

galleries/examples/axes_grid1/demo_fixed_size_axes.py - Entity Usage

```python
# The first & third items are for padding and the second items are for the
# Axes. Sizes are in inches.
h = [Size.Fixed(1.0), Size.Scaled(1.), Size.Fixed(.2)]
v = [Size.Fixed(0.7), Size.Scaled(1.), Size.Fixed(.5)]
divider = Divider(fig, (0, 0, 1, 1), h, v, aspect=False)
# The width and height of the rectangle are ignored.
ax = fig.add_axes(divider.get_position(),
                  axes_locator=divider.new_locator(nx=1, ny=1))
ax.plot([1, 2, 3])
plt.show()
```

Question Metadata

Repo: matplotlib/matplotlib
Question ID: 133
Category: entity_declaration_call_specific
Entity: `Scaled`
Correct Answer: C

MCQ Question

Question: How does the `Scaled` class handle the case where the absolute part of the size is zero, and what implications does this have for the plot's layout?

A) When the absolute part of the size is zero, the `Scaled` class returns `abs_size = 1`, ensuring that the plot always has a minimum size.

B) The `Scaled` class handles the case where the absolute part of the size is zero by setting it to `None`, effectively removing the size from the plot.

C) When the absolute part of the size is zero, the `Scaled` class returns `abs_size = 0`, effectively ignoring the absolute part of the size. This can lead to distorted plots, especially when the aspect ratio is not suitable for the data being represented.

D) The `Scaled` class uses a heuristic to handle the case where the absolute part of the size is zero, scaling the size to a default value of 1.0.