19th September

The trapezium and circle have the same area. Find \( r \).

\[
\begin{align*}
\text{Circle: } & \quad r \quad \text{cm} \\
\text{Trapezium: } & \quad 8 \text{ cm} \quad 5 \text{ cm} \quad 12 \text{ cm}
\end{align*}
\]

Simplify \( \sqrt{1000} \)

\[
\begin{align*}
\text{Simplify: } & \quad 3\sqrt{2} \times 3\sqrt{14}
\end{align*}
\]

An average clementine weighs 74g to the nearest gram.
A net contains 12 clementines.
The net weighs 20g to the nearest gram.

What is the maximum possible weight of the net of clementines?

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Complete the table of value for

\[
y = \frac{4}{x}
\]

<table>
<thead>
<tr>
<th>( x )</th>
<th>0.5</th>
<th>1</th>
<th>2</th>
<th>4</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>( y )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

On the grid, draw the graph of

\[
y = \frac{4}{x}
\]

for \( 0.25 \leq x \leq 10 \)