## Creating Area and Perimeter Rectangles

Name:
Use the diagrams below to create a rectangle with the area/perimeter shown. Each $\bullet-=1$ unit(u). Answer with the length and height. Answers will vary.

1) | Area of 30 square units. |
| :--- |
|  |
|  |
| $\vdots$ |
2) Area of 3 square units.

3) Area of 42 square units.

4) Perimeter of 8 units.

5) Area of 54 square units. - 0 - 0 - -0

6) Area of 21 square units.

- • • • • • - -
-     - • $-\bullet \bullet \bullet \bullet$
-     -         -             -                 -                     - • -
- 0 - $0-0-0$
-- - - -9 - - - $\quad$ - $\bullet \bullet \bullet$ - - • - • - • - --- - - - - - - - -- - - - 0 - -- 0 - 0 - 0 - - - - -- 0 - 0 -- $0 \cdot 0 \cdot 0 \cdot 0$ -- - - 0 - - -- - - 0 -- 0 -- - - - -

12) Area of 9 square units.

-     - • $\bullet$ - $\bullet$ - - - -0 -- - - -10 -- 0 - - -- 0 - 0 - 0 - 0 - 0 - $0-0$ - $-0 \cdot 0 \cdot 0$ -
 - - - - - -- - - - -

10) Perimeter of 6 units.

11) Perimeter of 16 units.
 - - - 0 0000000000 - 0 - 0 - 0 -- - - • • • - -
 - - - - • - - -- - - - $\quad$ - $\quad$ -- • - • • • • - $\bullet \bullet \bullet \bullet \bullet$
12) Area of 10 square units. - - • - - • -- - - 0 - $-\odot$
13) Perimeter of 38 units. - • • • • • • • - $0 \cdot 0$ - 0 - 0 - $0 \cdot 0 \cdot 0 \cdot 0 \cdot 0$ $0-0 \cdot 0 \cdot 0 \cdot 0$ - $-\odot-0$ - 0 -- $0 \cdot 0$ - 0 - 0 - 0 - 0 - 0 - 0 - - - - 0 - -- - - $-\odot$ - - - - - - -
14) Perimeter of 18 units. - - • • • • -- $0 \cdot 0 \cdot 0 \cdot 0 \cdot 0$

 - 0 - 0 - 0 -
 - $0 \cdot 0 \cdot 0 \cdot 0 \cdot 0$ - $0-0-000$ - - - 0 - - 0 -

| 8. | =8u |
| :---: | :---: |
| 9. | $=10 u^{2}$ |
| 10 | $=6 \mathrm{u}$ |
| 11 | =16u |
| 12. | $=9 u^{2}$ |

Answers

1. $-\ldots-\frac{=30 \mathbf{u}^{2}}{\text { 2. }-\ldots-\frac{=54 u^{2}}{2}}$
2. $-\ldots-\frac{=38 u}{}$
3. $-\ldots-3 \mathbf{u}^{2}$
4. 
5. $ـ ـ=-18 u$ 7.
6. 




Use the diagrams below to create a rectangle with the area/perimeter shown. Each
4) Area of 3 square units.

-     - • • • • - -


7) Area of 42 square units.
 -
8) Perimeter of 8 units.
9) Area of 21 square units.

- • • • • • - -
-     - • $-\bullet \bullet \bullet \bullet$
-     - • - • • • - -
-     -         - 0 - 0 - 0
-- - - -9 - - - $\quad$ - $\bullet \bullet \bullet$ - - - - • - - -- - • - • • -

$$
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\end{aligned}
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\begin{aligned}
& \text { - - - • - • - - }
\end{aligned}
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9) Area of 10 square units. - - • • • • - -- - - $-\bullet \bullet$ - - - 0 - - -- 0 - 0 - 0 -- 0 - 0 - 0 -- $0 \cdot 0$ - 0 -- $0 \cdot 0 \cdot 0 \cdot 0$ - 0 - $0 \cdot 0 \cdot$ - 0 - 0 - 0 -- 0 - 0 - 0 -- - - - - - -
10) Area of 9 square units.

-     - • • - - - -- - - 0 - - -- - - -10 -- 0 - 0 - -- 0 - 0 - 0 -- $0 \cdot 0 \cdot 0-0 \cdot 0$ - $-0 \cdot 0 \cdot 0$ -- - - - - - -- - - 0 - - -- 0 - 0 -- 0 - 0 -

2) Area of 54 square units. - 0 - 0 -- - - - • • • -- - - - - - -- - - $\rightarrow$ -- - - 0 - - -- - - • - • - --- - • • • • • -
3) Perimeter of 18 units. - • • • • • • - -- $0 \cdot 0 \cdot 0 \cdot 0 \cdot 0$ $\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$ - $-\odot-0 \cdot 0-0$ - - - 0 - 0 -- $0 \cdot 0 \cdot 0 \cdot 0$
 - 0 - 0 - 0 -- - - 0 - 0 -
4) Perimeter of 16 units.
 - 0 - 0 0000000000 - - - 0 - - -- - - • - • - -
 - - - • - - - • - - $\quad$ - $\rightarrow$ - $\quad$ -- • - • • • • - - • - • • •
5) Perimeter of 38 units. - - - - - - - -- $0 \cdot 0$ - 0 - -
 - 0 - 0 - $0-0$ - 0 - $0-0$ -- 0 - 0 - 0 -- - - - - - - -- - - 0 - 0 - $0 \cdot 0 \cdot 0 \cdot 0$ - - - - -
6) Perimeter of 6 units.


Answers<br>Answers

| 1. | $=30 u^{2}$ |
| :---: | :---: |
| 2. | $=54 u^{2}$ |
| 3. | =38u |
| 4. | $=3 u^{2}$ |
| 5. | $=21 u^{2}$ |
| 6. | =18u |
| 7. | $=42 \mathrm{u}^{2}$ |
| 8. | =8u |
| 9. | $=10 \mathrm{u}^{2}$ |
| 10. | $=6 \mathrm{u}$ |
| 11. | =16u |
| 12. | $=9 u^{2}$ |

12. 



