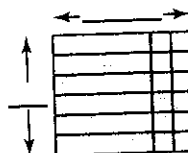


## Practice

1. a) Write the binomial modelled by these algebra tiles: \_\_\_\_\_



- b) The length of the rectangle is \_\_\_\_\_.  
The width of the rectangle is \_\_\_\_\_.  
Factor the binomial: \_\_\_\_\_

2. Use algebra tiles to factor each binomial.

- a)  $8w + 12$

Since \_\_\_\_\_ is the GCF of 8 and 12, make \_\_\_\_\_ equal rows of tiles.

Sketch the tiles.

The length of the rectangle is \_\_\_\_\_.

The width of the rectangle is \_\_\_\_\_.

So,  $8w + 12 =$  \_\_\_\_\_

- b)  $6x^2 + 15x$

Since \_\_\_\_\_ is the GCF of 6 and 15, make \_\_\_\_\_ equal rows of tiles.

Sketch the tiles.

The length of the rectangle is \_\_\_\_\_.

The width of the rectangle is \_\_\_\_\_.

So,  $6x^2 + 15x =$  \_\_\_\_\_

3. Factor each binomial by dividing.

- a)  $-9z + 36$

Factor each term of the binomial.

$$9z = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$36 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$\text{The GCF is } \underline{\quad} \times \underline{\quad} = \underline{\quad}.$$

Divide each term of the binomial by \_\_\_\_\_.

$$\frac{-9z + 36}{\underline{\quad}} = \frac{-9z}{\underline{\quad}} + \frac{36}{\underline{\quad}}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\text{So, } -9z + 36 = \underline{\quad}$$

- b)  $25t^2 - 10t$

Factor each term of the binomial.

$$25t^2 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$10t = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$\text{The GCF is } \underline{\quad} \times \underline{\quad} = \underline{\quad}.$$

$$\text{So, } 25t^2 - 10t = \underline{\quad}$$

Divide each term of the binomial by \_\_\_\_\_.

$$\frac{25t^2 - 10t}{\underline{\quad}} = \frac{\underline{\quad}}{\underline{\quad}} - \frac{\underline{\quad}}{\underline{\quad}}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$