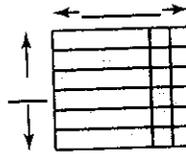


Practice

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 _____.

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

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