|  |
| --- |
| **Working with Monomials and Binomials** |
| Interprets models of monomials and binomials “This design models (5*s* + 4*t*).” | Determines sums and differences of monomials with whole-number or integer coefficients 6*s* − (−2*s*)“I modelled 6*s*. I didn’t have any −*s-*tiles to take away, so I added 2 zero pairs. I took away 2 –*s*-tiles, leaving 8 *s-*tiles, or 8*s*.” | Determines sums of binomials with integer coefficients(–3*x* + 4*y*) + (–2*x* – 3*y*)“I need to model 2 different variables and positive and negative coefficients. I’m going to use algebra tiles and two-colour counters. When I combine tiles and counters, and remove zero pairs, I end up with 5 red *x*-tiles and 1 yellow y-counter. The answer is –5*x* + *y*.” | Solves applied problems involving the addition of binomialsEach side of an equilateral triangle has length (2*x* + 5) cm. What is its perimeter?“The perimeter is the sum of the side lengths: (2*x* + 5) + (2*x* + 5) + (2*x* + 5)I can add the *x’*s and add the constants. 2*x* + 2*x* + 2*x* + 5 + 5 + 5= 6*x* + 15The perimeter is (6*x* + 15) cm. |
| **Observations/Documentation** |
|  |  |  |  |