Decoding Stations

Station 1

1) *Y* is 5 less than the product of 4 and *x*

2) A worker's earnings *e* are a function of the number of hours *n* worked at a rate of $8.75 per hour.

3) The helicopter hovers 40 ft about the ground. Then the helicopter climbs at a rate of 21 ft/s. Write a rule that represents the helicopter's height *h* above the ground as a function of time *t*. What is the helicopter's height after 45 seconds?

4) *C* is 8 more than half of *n*

5) The price *p* of a pizza is $6.95 plus $0.95 for each topping *t* on the pizza

6) A team of divers assembles at an elevation of -10 ft relative to the surface of the water. Then the team dives at a rate of -50 ft/min. Write a rule that represents the team's depth *d* as a function of time *t*. What is the team's depth after 3 min?

Station 3

7) 7 less than three fifths of *b* is *a*

8) The load *L*, in pounds, of a wheelbarrow is the sum of its own 42-lb weight and the weight of the bricks that it carries. The wheelbarrow holds *n* 4-lb bricks.

9) A new book is being planned. It will have 24 pages of introduction. Then it will have *c* 12-page chapters and 48 more pages at the end. Write a rule that represents the total number of pages *p* in the book as a function of the number of chapters. Suppose the book has 25 chapters. How many pages will it have?

10) 2.5 more than the quotient of *h* and 3 is *w*

11) The almond extract *a* remaining in an 8-oz

bottle decreases by 1/6 oz for each batch *b* of

waffle cookies made.

12) From an elevation of 3.5 m below the

surface of the water, a northern bottlenose

whale dives at a rate of 1.8 m/s. Write a rule

that gives the whale's depth *d* as a function of

time *t* in minutes. What is the whale's depth

after 4 min?