**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Algebra Concepts – Assignment 3-4**

**Use the models below to answer questions 1-3.**

1. The Patriots scored touchdowns  of the times they were in the red zone this season. If they were in the red zone 36 times, how many touchdowns did they score?

|-----------------------------------------36----------------------------------------------|

|  |  |  |
| --- | --- | --- |
|  |  |  |

|-----------------------touchdowns----------------------|

 ?

1. Dylan has 84 songs on his iPod.  of Dylan’s songs are rap music. How many of Cennedy’s songs are rap music?

|-----------------------------------------84 songs--------------------------------------|

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

|------------------------------rap songs-------------------------|

 ?

1. Cathy bought  of candy at a store for $1.25. How much did the candy cost per pound?

?

|-----------------------------------cost of 1 pound------------------------------------|

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

|--------$1.25-------|

**Build Your Own Model**

1. At Mr. Lamneck’s favorite golf course,  of the holes are Par 4. There are 18 holes on the course. How many of the holes are Par 4?
2. Amy read 24 books in 2012.  of the books she read were mystery novels. How many mystery novels did Amy read?
3. Zach went for a long drive with his family over vacation. When Zach asked his mother, “When are we going to be there?” she replied that they were about  of the way. If Zach’s family had traveled 40 miles when he asked the question, what was the total distance of the trip?

**Review**

**Solve for x.**

1. x + 4 = 10
2.

|--------------------------------------------20-------------------------------------------|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x |  |  |  |  |

**Sketch the graph of each type of function.**

1. Linear Increasing

|  |
| --- |
|  |

1. Exponential Decreasing

|  |
| --- |
|  |