Basic Math Skills
rate and proportion

1. At Alice’s Restaurant, there are 15 tables and 5 waitresses. At this rate,
   (a) 12 waitresses can handle how many tables?
   (b) 60 tables require how many waitresses?

2. Suppose you have 3 pizzas for 12 kids. At this rate,
   (a) how many kids can you feed with 5 pizzas?
   (b) how many pizzas do you need for 100 kids?

3. A telephone operator can handle 17 calls in 1 hour. At this rate,
   (a) the operator can handle how many calls in 5 hours?
   (b) how many hours will it take the operator to handle 51 calls?

4. You drove 280 miles in 4 hours. At this rate,
   (a) in 17 hours, you would drive how many miles?
   (b) to drive 350 miles would take how many hours?

5. Suppose you have 6 pizzas for 3 kids. At this rate,
   (a) 200 pizzas would be for how many kids?
   (b) 70 kids would need how many pizzas?

6. The Callaway “Sledgehammer” Corvette goes 1,512 miles in 3 hours.
   (a) how many miles does a Callaway Corvette go in 17 hours?
   (b) how many hours would it take a Callaway Corvette to go 4032 miles?

7. At Dan’s Diner, there are 16 tables and 6 waiters. At this rate,
   (a) 15 waiters can handle how many tables?
   (b) 72 tables require how many waiters?

8. Suppose you have 4 pizzas for 10 kids. At this rate,
   (a) how many pizzas would you need for 555 kids?
   (b) 512 pizzas would be for how many kids?

9. A customer service representative can handle 100 calls in 8 hours. At this rate,
   (a) how many calls can this representative handle in 52 hours?
   (b) how many hours will it take for this representative to handle 250 calls?

10. In a dance class, there are 16 men and 24 women. To keep the same ratio,
    (a) how many men should be in a class with 33 women?
    (b) how many women should be in a class with 142 men?

11. Suppose you have 48 cookies for 36 kids. At this rate,
    (a) 1284 cookies would be for how many kids?
    (b) 3333 kids would need how many cookies?

12. The garden snail goes 3 miles in 100 hours. At this rate,
    (a) how long will it take the snail to go 750 miles?
    (b) how far can the snail go in 2000 hours?