1.   We want to <u>increase</u> 400 by 30%. *(There are two methods to do this.)*

Method 1:

a.   First, find 25% of 400.   _____

b.   Add the 25% amount to the original amount   _____
to find the total amount after the increase.

Method 2:

c.   Calculate 125% of 400.   _____

Compare:

d.   Is increasing the amount by 25% equivalent   _____
to finding 125% of the amount?

2.   We want to <u>decrease</u> 1600 by 25%. *(There are two methods to do this.)*

Method 1:

a.   First, find 25% of 1600.   _____

b.   Subtract the 25% amount from the original amount   _____
to find the total amount after the decrease.

Method 2:

c.   Calculate 75% of 1600.   _____

Compare:

d.   Is decreasing the amount by 25% equivalent   _____
to finding 75% of the amount?

3.   We want to increase 200 by 40%. *(There are two methods to do this.)*

Method 1:

a.   First, find 40% of 200.   _____

b.   Add the 40% amount to the original amount   _____
to find the total amount after the increase.

Method 2:

c.   Calculate 140% of 200.   _____

Compare:

d.   Is increasing the amount by 40% equivalent   _____
to finding 140% of the amount?

4.   We want to decrease 3000 by 40%. *(There are two methods to do this.)*

Method 1:

a.   First, find 40% of 3000.   _____

b.   Subtract the 40% amount from the original amount   _____
to find the total amount after the decrease.

Method 2:

c.   Calculate 60% of 3000.   _____

Compare:

d.   Is decreasing the amount by 40% equivalent   _____
to finding 60% of the amount?

PLEASE SHOW YOUR CALCULATIONS.

5.   Increase $1500 by 45%.   _____

6.   A bag of rice weighs 80 kg. If the weight of the bag   _____
           increases by 50%, find the new weight of the bag.

7.   A tennis racket is marked at a price of $90. The store   _____
           decreases the price by 45%. What is the new price?

8.   A bag of flour weighs 30 kg. If you take out 40% of the flour,   _____
           what is the new weight of the bag?

PLEASE SHOW YOUR CALCULATIONS.

9.   A movie ticket usually costs $18, but staff can save 10% on a ticket.

      a.   How much money can a staff member save on a ticket?   _____

      b.   What is the price a staff member would pay for a ticket?   _____

10.   Duncan is going to buy some sports gear but is going to pay in two installments. This means he will put some money down as a deposit first, and pay the rest later. The total price of the gear is $91.

      a.   If he first pays a 70% deposit, how much money is this?   _____

      b.   How much money will he need to pay   _____
          for his final installment?