

## UNIT 1 WORKSHEET

SOLVE EACH OF THE PROBLEMS.... BE SURE TO LIST WHAT YOU KNOW AND WHAT YOU NEED TO FIND..

1. Anita has 48 rabbits to sell for Easter. She has priced them at \$4.95 each. How much money will she get if she sells all but 8 of them?

KNOW--->

FIND---->

ANSWER

2. Amy is laying tile on a floor. The floor is a 15 feet by 25 feet. The tiles cover 1 square foot and cost \$.50 each. In order to account for waste she will need to buy an extra 15%. How many tile are needed and what is the cost of the tile needed to cover the floor?

KNOW--->

FIND--->

ANSWER

3. Frank is a farmer. He needs to fertilize a 10-acre field with 40 pounds of nitrogen per acre. The fertilizer he will use comes in 50 pound bags and is 20% nitrogen. The cost is \$7.00 per bag. How many bags should Frank buy and how much does it cost?

KNOW--->

FIND--->

ANSWER

4. A farmer needs to fence a pasture. Its four sides measure 935 feet, 723 feet, 605 feet and 985 feet. The wire he uses comes in 50 foot rolls. The cost of the wire is \$20.00 per roll. How much will the wire for the fence cost?

KNOW--->

FIND--->

ANSWER

5. A dieter wants to lose 15 pounds. Eating 2600 calories a day caused no weight gain or weight loss for the dieter. If the diet allows 1800 calories per day, how many days are needed to reach the goal? (1 pound of body fat is equivalent to 3500 calories)

KNOW--->

FIND--->

ANSWER

6. You have a 300-acre range that produces 2000 lb/acre of forage during the growing season. To protect the range, you want no more than half the forage eaten. Your cows each eat 30 pounds of forage per day. How many days should you permit your herd of 50 cattle to graze on the range during the growing season?

KNOW--->

FIND--->

ANSWER

7. You are thinking of opening a grocery store in a town with a population of 12500. The per capita income for the town is \$5952. The average food expense is 18% of family income. There are no other grocery stores in the town. What is the total value of the potential market of your store?

KNOW--->

FIND--->

ANSWER

8. You are a control technician for Wola Cola Bottling Company. Your machine is set to fill a 2-liter bottle in .6 seconds and move the next bottle into place in .1 second. It takes .1 second to put the lid on. How many 2-liter bottles will your machine fill in one eight hour shift?

KNOW--->

FIND--->

ANSWER

9. The temperature in Mr. Currans classroom needs to be within 10 degrees of 75° F either above of below. The thermometer in the room only measures in Celsius. If the thermometer shows a temperature of 27° C. Does the temperature fall within the specifications?

$$\text{FORMULA: } F = \frac{9}{5}C + 32$$

KNOW--->

FIND--->

ANSWER

## UNIT 1 WORKSHEET

SOLVE EACH OF THE PROBLEMS.... BE SURE TO LIST WHAT YOU KNOW AND WHAT YOU NEED TO FIND..

1. Anita has 48 rabbits to sell for Easter. She has priced them at \$4.95 each. How much money will she get if she sells all but 7 of them?

KNOW--->

FIND---->

ANSWER

2. Amy is laying tile on a floor. The floor is a 15 feet by 30 feet. The tiles cover 1 square foot and cost \$.50 each. In order to account for waste she will need to buy an extra 15%. How many tile are needed and what is the cost of the tile needed to cover the floor?

KNOW--->

FIND--->

ANSWER

3. Frank is a farmer. He needs to fertilize a 11-acre field with 40 pounds of nitrogen per acre. The fertilizer he will use comes in 50 pound bags and is 20% nitrogen. The cost is \$7.00 per bag. How many bags should Frank buy and how much does it cost?

KNOW--->

FIND--->

ANSWER

4. A farmer needs to fence a pasture. Its four sides measure 935 feet, 735 feet, 605 feet and 985 feet. The wire he uses comes in 50 foot rolls. The cost of the wire is \$20.00 per roll. How much will the wire for the fence cost?

KNOW--->

FIND--->

ANSWER

5. A dieter wants to lose 18 pounds. Eating 2600 calories a day caused no weight gain or weight loss for the dieter. If the diet allows 1800 calories per day, how many days are needed to reach the goal? (1 pound of body fat is equivalent to 3500 calories)

KNOW--->

FIND--->

ANSWER

6. You have a 350-acre range that produces 2000 lb/acre of forage during the growing season. To protect the range, you want no more than half the forage eaten. Your cows each eat 30 pounds of forage per day. How many days should you permit your herd of 50 cattle to graze on the range during the growing season?

KNOW--->

FIND--->

ANSWER

7. You are thinking of opening a grocery store in a town with a population of 2500. The per capita income for the town is \$5952. The average food expense is 18% of family income. There are no other grocery stores in the town. What is the total value of the potential market of your store?

KNOW--->

FIND--->

ANSWER

8. You are a control technician for Wola Cola Bottling Company. Your machine is set to fill a 2-liter bottle in .6 seconds and move the next bottle into place in .2 second. It takes .1 second to put the lid on. How many 2-liter bottles will your machine fill in one eight hour shift?

KNOW--->

FIND--->

ANSWER

9. The temperature in Mr. Currans classroom needs to be within 10 degrees of 78° F either above of below. The thermometer in the room only measures in Celsius. If the thermometer shows a temperature of 27° C. Does the temperature fall within the specifications?

$$\text{FORMULA: } F = \frac{9}{5}C + 32$$

KNOW--->

FIND--->

ANSWER

## UNIT 1 WORKSHEET

SOLVE EACH OF THE PROBLEMS.... BE SURE TO LIST WHAT YOU KNOW AND WHAT YOU NEED TO FIND..

1. Anita has 48 rabbits to sell for Easter. She has priced them at \$4.85 each. How much money will she get if she sells all but 8 of them?

KNOW--->

FIND---->

ANSWER

2. Amy is laying tile on a floor. The floor is a 12 feet by 25 feet. The tiles cover 1 square foot and cost \$.50 each. In order to account for waste she will need to buy an extra 15%. How many tile are needed and what is the cost of the tile needed to cover the floor?

KNOW--->

FIND--->

ANSWER

3. Frank is a farmer. He needs to fertilize a 10-acre field with 40 pounds of nitrogen per acre. The fertilizer he will use comes in 50 pound bags and is 20% nitrogen. The cost is \$6.00 per bag. How many bags should Frank buy and how much does it cost?

KNOW--->

FIND--->

ANSWER

4. A farmer needs to fence a pasture. Its four sides measure 935 feet, 723 feet, 605 feet and 965 feet. The wire he uses comes in 50 foot rolls. The cost of the wire is \$20.00 per roll. How much will the wire for the fence cost?

KNOW--->

FIND--->

ANSWER

5. A dieter wants to lose 19 pounds. Eating 2600 calories a day caused no weight gain or weight loss for the dieter. If the diet allows 1800 calories per day, how many days are needed to reach the goal? (1 pound of body fat is equivalent to 3500 calories)

KNOW--->

FIND--->

ANSWER

6. You have a 390-acre range that produces 2000 lb/acre of forage during the growing season. To protect the range, you want no more than half the forage eaten. Your cows each eat 30 pounds of forage per day. How many days should you permit your herd of 50 cattle to graze on the range during the growing season?

KNOW--->

FIND--->

ANSWER

7. You are thinking of opening a grocery store in a town with a population of 4500. The per capita income for the town is \$5952. The average food expense is 18% of family income. There are no other grocery stores in the town. What is the total value of the potential market of your store?

KNOW--->

FIND--->

ANSWER

8. You are a control technician for Wola Cola Bottling Company. Your machine is set to fill a 2-liter bottle in .6 seconds and move the next bottle into place in .1 second. It takes .1 second to put the lid on. How many 2-liter bottles will your machine fill in one seven hour shift?

KNOW--->

FIND--->

ANSWER

9. The temperature in Mr. Currans classroom needs to be within 5 degrees of 75° F either above of below. The thermometer in the room only measures in Celsius. If the thermometer shows a temperature of 26° C. Does the temperature fall within the specifications?

$$\text{FORMULA: } F = \frac{9}{5}C + 32$$

KNOW--->

FIND--->

ANSWER

## UNIT 1 WORKSHEET

SOLVE EACH OF THE PROBLEMS.... BE SURE TO LIST WHAT YOU KNOW AND WHAT YOU NEED TO FIND..

1. Anita has 48 rabbits to sell for Easter. She has priced them at \$4.25 each. How much money will she get if she sells all but 9 of them?

KNOW--->

FIND---->

ANSWER

2. Amy is laying tile on a floor. The floor is a 15 feet by 22 feet. The tiles cover 1 square foot and cost \$.50 each. In order to account for waste she will need to buy an extra 12%. How many tile are needed and what is the cost of the tile needed to cover the floor?

KNOW--->

FIND--->

ANSWER

3. Frank is a farmer. He needs to fertilize a 15-acre field with 40 pounds of nitrogen per acre. The fertilizer he will use comes in 50 pound bags and is 20% nitrogen. The cost is \$7.50 per bag. How many bags should Frank buy and how much does it cost?

KNOW--->

FIND--->

ANSWER

4. A farmer needs to fence a pasture. Its four sides measure 435 feet, 723 feet, 605 feet and 925 feet. The wire he uses comes in 50 foot rolls. The cost of the wire is \$20.00 per roll. How much will the wire for the fence cost?

KNOW--->

FIND--->

ANSWER

5. A dieter wants to lose 25 pounds. Eating 2600 calories a day caused no weight gain or weight loss for the dieter. If the diet allows 1800 calories per day, how many days are needed to reach the goal? (1 pound of body fat is equivalent to 3500 calories)

KNOW--->

FIND--->

ANSWER

6. You have a 400-acre range that produces 2000 lb/acre of forage during the growing season. To protect the range, you want no more than half the forage eaten. Your cows each eat 30 pounds of forage per day. How many days should you permit your herd of 50 cattle to graze on the range during the growing season?

KNOW--->

FIND--->

ANSWER

7. You are thinking of opening a grocery store in a town with a population of 2300. The per capita income for the town is \$5952. The average food expense is 18% of family income. There are no other grocery stores in the town. What is the total value of the potential market of your store?

KNOW--->

FIND--->

ANSWER

8. You are a control technician for Wola Cola Bottling Company. Your machine is set to fill a 2-liter bottle in .9 seconds and move the next bottle into place in .1 second. It takes .1 second to put the lid on. How many 2-liter bottles will your machine fill in one nine hour shift?

KNOW--->

FIND--->

ANSWER

9. The temperature in Mr. Currans classroom needs to be within 10 degrees of 75° F either above or below. The thermometer in the room only measures in Celsius. If the thermometer shows a temperature of 26° C. Does the temperature fall within the specifications?

$$\text{FORMULA: } F = \frac{9}{5}C + 32$$

KNOW--->

FIND--->

ANSWER

## UNIT 1 WORKSHEET

SOLVE EACH OF THE PROBLEMS.... BE SURE TO LIST WHAT YOU KNOW AND WHAT YOU NEED TO FIND..

1. Anita has 48 rabbits to sell for Easter. She has priced them at \$6.95 each. How much money will she get if she sells all but 4 of them?

KNOW--->

FIND---->

ANSWER

2. Amy is laying tile on a floor. The floor is a 12 feet by 35 feet. The tiles cover 1 square foot and cost \$.50 each. In order to account for waste she will need to buy an extra 5%. How many tile are needed and what is the cost of the tile needed to cover the floor?

KNOW--->

FIND--->

ANSWER

3. Frank is a farmer. He needs to fertilize a 10-acre field with 30 pounds of nitrogen per acre. The fertilizer he will use comes in 50 pound bags and is 20% nitrogen. The cost is \$9.50 per bag. How many bags should Frank buy and how much does it cost?

KNOW--->

FIND--->

ANSWER

4. A farmer needs to fence a pasture. Its four sides measure 635 feet, 723 feet, 685 feet and 985 feet. The wire he uses comes in 50 foot rolls. The cost of the wire is \$15.00 per roll. How much will the wire for the fence cost?

KNOW--->

FIND--->

ANSWER

5. A dieter wants to lose 35 pounds. Eating 2600 calories a day caused no weight gain or weight loss for the dieter. If the diet allows 1800 calories per day, how many days are needed to reach the goal? (1 pound of body fat is equivalent to 3500 calories)

KNOW--->

FIND--->

ANSWER

6. You have a 420-acre range that produces 2000 lb/acre of forage during the growing season. To protect the range, you want no more than half the forage eaten. Your cows each eat 30 pounds of forage per day. How many days should you permit your herd of 50 cattle to graze on the range during the growing season?

KNOW--->

FIND--->

ANSWER

7. You are thinking of opening a grocery store in a town with a population of 6400. The per capita income for the town is \$5952. The average food expense is 18% of family income. There are no other grocery stores in the town. What is the total value of the potential market of your store?

KNOW--->

FIND--->

ANSWER

8. You are a control technician for Wola Cola Bottling Company. Your machine is set to fill a 2-liter bottle in .3 seconds and move the next bottle into place in .1 second. It takes .1 second to put the lid on. How many 2-liter bottles will your machine fill in one ten hour shift?

KNOW--->

FIND--->

ANSWER

9. The temperature in Mr. Currans classroom needs to be within 3 degrees of 75° F either above of below. The thermometer in the room only measures in Celsius. If the thermometer shows a temperature of 23° C. Does the temperature fall within the specifications?

$$\text{FORMULA: } F = \frac{9}{5}C + 32$$

KNOW--->

FIND--->

ANSWER

KEY TO WORKSHEETS.....

#1 - 48 RABBITS, \$495 EACH, SELL ALL BUT 8  
\$198  
#2 - \$216  
#3 - 40 bags, \$280  
#4 - \$1300  
#5 - 65.625 DAYS OR 66 DAYS  
#6 - 200 DAYS  
#7 - \$13,392,000  
#8 - 36,000 BOTTLES  
#9 - YES

#1 - 48 RABBITS, \$4.95, SELL ALL BUT 7  
\$202.95  
#2 - \$259  
#3 - 44 bags , \$308  
#4 - \$1320  
#5 - 78.75 OR 79 DAYS  
#6 - 233.33333  
#7 - \$2,678,400  
#8 - 32000 BOTTLES  
#9 - YES

#1 - 48 RABBITS, \$4.85, SELL ALL BUT 8  
\$194  
#2 - \$173  
#3 - 40 bags, \$240  
#4 - \$1300  
#5 - 83.125 OR 84 DAYS  
#6 - 260 DAYS  
#7 - \$4,821,120  
#8 - \$31500  
#9 - YES

#1 - 48 RABBITS, \$4.25, SELL ALL BUT 9  
\$165.75  
#2 - \$185  
#3 - 60 bags, \$450  
#4 - \$1080  
#5 - 109.375 DAYS OR 110 DAYS  
#6 - 266.6666  
#7 - \$2,464,128  
#8 - 29,454.5 OR 29,455 BOTTLES  
#9 - YES

#1 - 48 RABBITS, \$6.95, SELL ALL BUT 4  
\$305.80  
#2 - \$221  
#3 - 30 bags, \$285  
#4 - \$915  
#5 - 153.125 OR 154 DAYS  
#6 - 280 DAYS  
#7 - 6,856,704  
#8 - 72,000 BOTTLES  
#9 - YES