

Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Percent Word Problems- Worksheet 1

1. Jennifer made a fruit juice using red and green grapes. Thirty percent of the grapes are green. If she used a total of 60 grapes, how many red grapes should she use?
2. Danny just hired a new employee to work in your bakeshop. In one hour the employee burned 625 chocolate chip cookies. If this represented 25% of the day's production, how many cookies did you plan on producing that day?
3. The monthly budget for the front of the house is \$9,000. You spent 6% of the budget on fresh flowers. How much did you spend on fresh flowers?
4. Your food costs are \$2,500. Your total food sales are \$17,500. What percent of your food sales do the food costs represent?
5. You have a large container of olive oil. You have used  $22\frac{1}{2}$  quarts of oil. Twenty - five percent of the olive oil remains. How many quarts of olive oil remain?
6. A serving of ice cream contains 1200 calories. One hundred forty-four calories come from fat. What percent of the total calories come from fat?
7. The chef has 25 pounds of strip loin. The trim loss on the strip loin is 35% and the cooking loss is 80% of the trimmed weight. How many pounds of trimmed, cooked strip loin will the chef have left to serve to his customers?
8. Calculate 2.5% of 250 kg?
9. Calculate 5% of 88.5cm?
10. Out of 2400 students of a school only 40% passed. Find how many students were failures.



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Topic : Percent Word Problems- Worksheet 1-**ANSWERS**

1.  **$60 \times 70/100 = 42$  red grapes**
  
2.  **$25\%$  of total production = 625  
total production =  $625 \times 100/25$   
= 2500 cookies**
  
3.  **$9000 \times 6/100 = 540$  \$**
  
4.  **$2500/17500 \times 100 = 14.29\%$**
  
5.  **$75\%$  of total oil = 22.5  
 $22.5 \times 100/75 = 30$   
Remaining oil = 25% of 30 quarts  
= 7.5 quarts**
  
6.  **$144/1200 \times 100 = 12\%$**
  
7.  **$25 \times 35/100 = 8.75$  pounds  
 $8.75 \times 80/100 = 7$  pounds  
 $25 - 7 = 18$  pounds**
  
8.  **$2.5/100 \times 250 = 6.25$  kg**
  
9.  **$5/100 \times 88.5 = 4.425$  cm**
  
10. **Failed students =  $2400 \times 60\%$   
= 1440**



Name: \_\_\_\_\_

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Topic : Percent Word Problems- Worksheet 2

1. Stuart made a fruit juice using oranges and grapes. Sixty percent of fruits are oranges. If he used a total of 60 oranges, how many grapes should he use?
2. Dick just hired a new employee to work in your bakeshop. In one hour the employee burned 55 chocolate chip cookies. If this represented 15% of the day's production, how many cookies did you plan on producing that day?
3. The monthly budget for the front of the house is \$18,000. You spent 9% of the budget on fresh flowers. How much did you spend on fresh flowers?
4. Your food costs are \$5,500. Your total food sales are \$11,000. What percent of your food sales do the food costs represent?
5. You have a large container of olive oil. You have used 25 quarts of oil. Twenty - five percent of the olive oil remains. How many quarts of olive oil remain?
6. A serving of ice cream contains 4200 calories. 1260 calories come from fat. What percent of the total calories come from fat?
7. The chef has 50 pounds of strip loin. The trim loss on the strip loin is 60% and the cooking loss is 20% of the trimmed weight. How many pounds of trimmed, cooked strip loin will the chef have left to serve to his customers?
8. Calculate 4.5% of 600 kg?
9. Calculate 25% of 700cm?
10. Out of 3500 students of a school only 36% passed. Find how many students were failures.



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Topic : Percent Word Problems- Worksheet 2-**ANSWERS**

1.  $60\% \times \text{total fruits} = 60$   
 $\text{total fruits} = 60 \times 100/60$   
 $= 100$   
 $\text{Grapes} = 100-60$   
 $= 40$
2.  $15\% \text{ of total production} = 55$   
 $\text{total production} = 55 \times 100/15$   
 $= 367 \text{ cookies}$
3.  $18000 \times 9/100 = 1620 \$$
4.  $5500/11000 \times 100 = 50\%$
5.  $75\% \text{ of total oil} = 22.5$   
 $22.5 \times 100/75 = 30$   
 $\text{Remaining oil} = 25\% \text{ of } 30 \text{ quarts}$   
 $= 7.5 \text{ quarts}$
6.  $144/1200 \times 100 = 12\%$
7.  $50 \times 60/100 = 30 \text{ pounds}$   
 $30 \times 20/100 = 6 \text{ pounds}$   
 $50 - 6 = 44 \text{ pounds}$
8.  $4.5/100 \times 600 = 27 \text{ kg}$
9.  $25/100 \times 700 = 175 \text{ cm}$
10.  $\text{Failed students} = 3500 \times 64\%$   
 $= 2240$



Name: \_\_\_\_\_

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Topic : Percent Word Problems- Worksheet 3

1. Janelle made a fruit cake using bananas and apples. Forty percent of fruits are bananas. If she used a total of 120 fruits, how many apples should she use?
2. John just hired a new employee to work in your bakeshop. In one hour the employee burned 150 chocolate chip cookies. If this represented 15% of the day's production, how many cookies did you plan on producing that day?
3. The monthly budget for the front of the house is \$51,000. You spent 17% of the budget on fresh flowers. How much did you spend on fresh flowers?
4. Your food costs are \$2250. Your total food sales are \$25,000. What percent of your food sales do the food costs represent?
5. You have a large container of mustard oil. You have used 480 quarts of oil. Seventy - six percent of the mustard oil remains. How many quarts of mustard oil remain?
6. A serving of ice cream contains 6400 calories. 1600 calories come from fat. What percent of the total calories come from fat?
7. The chef has 80 pounds of strip loin. The trim loss on the strip loin is 55% and the cooking loss is 60% of the trimmed weight. How many pounds of trimmed, cooked strip loin will the chef have left to serve to his customers?
8. Calculate 55% of 900 kg?
9. Calculate 86% of 500cm?
10. Out of 6700 students of a school only 90% passed. Find how many students were passed.



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Topic : Percent Word Problems- Worksheet 3 - **ANSWERS**

1.  **$120 \times 60\% = 72$  apples**
  
2. **15% of total production = 150**  
**total production =  $150 \times 100/15$**   
**= 1000 cookies**
  
3.  **$51000 \times 17/100 = 8670$  \$**
  
4.  **$2250/25000 \times 100 = 9\%$**
  
5. **24% of total oil = 480**  
 **$480 \times 100/24 = 2000$**   
**Remaining oil = 76% of 2000 quarts**  
**= 1520 quarts**
  
6.  **$1600/6400 \times 100 = 25\%$**
  
7.  **$80 \times 55/100 = 44$  pounds**  
 **$44 \times 60/100 = 26.4$  pounds**  
 **$80 - 26.4 = 53.6$  pounds**
  
8.  **$55/100 \times 900 = 495$  kg**
  
9.  **$86/100 \times 500 = 430$  cm**
  
10. **Passed students =  $6700 \times 90\%$**   
**= 6030**



Name: \_\_\_\_\_

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Topic : Percent Word Problems- Worksheet 4

1. Jolie brought balls of green and blue color. Thirty five percent of balls are blue. If she brought total of 300 balls, how many green balls she had?
2. Emily just hired a new employee to work in your bakeshop. In one hour the employee burned 650 chocolate chip cookies. If this represented 13% of the day's production, how many cookies did you plan on producing that day?
3. The monthly budget for the front of the house is \$2,000. You spent 14% of the budget on fresh flowers. How much did you spend on fresh flowers?
4. Your food costs are \$1700. Your total food sales are 2890 \$. What percent of your food sales do the food costs represent?
5. You have a large container of petrol. You have used 320 quarts of petrol. Eighty percent of the petrol remains. How many quarts of petrol remain?
6. A serving of ice cream contains 8500 calories. 1500 calories come from fat. What percent of the total calories come from fat?
7. The chef has 50 pounds of strip Zebra. The trim loss on the strip zebra is 40% and the cooking loss is 60% of the trimmed weight. How many pounds of trimmed, cooked strip zebra will the chef have left to serve to his customers?
8. Calculate 56% of 500 kg?
9. Calculate 42% of 500cm?
10. Out of 5200 students of a school only 80% passed. Find how many students were failed.



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Topic : Percent Word Problems- Worksheet 4 - **ANSWERS**

1.  **$300 \times 65\% = 195$  green balls**
  
2.  **$13\%$  of total production = 650  
total production =  $650 \times 100/13$   
= 5000 cookies**
  
3.  **$2000 \times 14/100 = 280$  \$**
  
4.  **$1700/2890 \times 100 = 58.82\%$**
  
5.  **$20\%$  of total oil = 320  
 $320 \times 100/20 = 1600$   
Remaining oil =  $80\%$  of 1600 quarts  
= 1280 quarts**
  
6.  **$1500/8500 \times 100 = 17.65\%$**
  
7.  **$50 \times 40/100 = 20$  pounds  
 $20 \times 60/100 = 12$  pounds  
 $80 - 12 = 68$  pounds**
  
8.  **$56/100 \times 500 = 280$  kg**
  
9.  **$42/100 \times 500 = 210$  cm**
  
10. **Failed students =  $5200 \times 20\%$   
= 1040**





Name: \_\_\_\_\_

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Topic : Percent Word Problems- Worksheet 5

1. Alma brought balls of green and blue color. Thirty five percent of balls are blue. If she brought total of 70 blue balls, how many green balls she had?
2. Emily just hired a new employee to work in your bakeshop. In one hour the employee burned 750 chocolate chip cookies. If this represented 15% of the day's production, how many cookies did you plan on producing that day?
3. The monthly budget for the front of the house is \$5,000. You spent 10% of the budget on fresh flowers. How much did you spend on fresh flowers?
4. Your food costs are \$1700. Your total food sales are 8500 \$. What percent of your food sales do the food costs represent?
5. You have a large container of water. You have used 500 quarts of water. Eighty five percent of the water remains. How many quarts of water used?
6. A serving of ice cream contains 5000 calories. 200 calories come from fat. What percent of the total calories come from fat?
7. The chef has 300 pounds of strip Sheep. The trim loss on the strip Sheep is 40% and the cooking loss is 60% of the trimmed weight. How many pounds of trimmed, cooked strip sheep will the chef have left to serve to his customers?
8. Calculate 56% of 880 kg?
9. Calculate 32% of 300cm?
10. Out of 1200 students of a school only 85% passed. Find how many students were failed.



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Topic : Percent Word Problems- Worksheet 5 - **ANSWERS**

1.  $35\% \text{ of total balls} = 70$   
 $\text{total balls} = 70 \times 100/35$   
 $= 200$   
 $\text{Green balls} = 200 - 70 = 130$
2.  $15\% \text{ of total production} = 750$   
 $\text{total production} = 750 \times 100/15$   
 $= 5000 \text{ cookies}$
3.  $5000 \times 10/100 = 500 \$$
4.  $1700/8500 \times 100 = 20\%$
5.  $15\% \text{ of total water} = 500$   
 $500 \times 100/15 = 3333.33 \text{ quarts}$
6.  $200/5000 \times 100 = 4\%$
7.  $300 \times 40/100 = 120 \text{ pounds}$   
 $120 \times 60/100 = 72 \text{ pounds}$   
 $300 - 72 = 228 \text{ pounds}$
8.  $56/100 \times 880 = 492.8 \text{ kg}$
9.  $32/100 \times 300 = 96 \text{ cm}$
10.  $\text{Failed students} = 1200 \times 15\%$   
 $= 180$

