



**MODULE 9**

**Percents in Real Life**

Grace bought a new house and paid ¼ of the asking price as a down payment. What percent of the total price did she use as a down payment?

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**Module 9: Percents in Real Life**

In this module, you will be learning several skills for success. Skills for success are skills needed in everyday life to be successful at work, when learning and for life.

*(Retrieved from: https://www.canada.ca/en/services/jobs/training/initiatives/skills-success.html)*

In this module you will practice the following skills for success:

a) **Numeracy:** Numeracy skills are critical to your success in today’s society. Numeracy skills are necessary at work, in everyday life and in learning environments. You require these skills to understand numbers, perform calculations, manage budgets, interpret data and make estimations.

b) **Problem Solving:** Problem solving skills help you to make decisions, solve problems and make changes. Improving your problem solving skills will help you make better decisions by teaching you to identify a problem, gather the correct information and solve the problem.

c) **Reading:** Reading is important at work and in daily life activities to keep you informed, safe and successful. Reading is also important in order to learn new skills. This module will help you practice locating information through words, symbols and pictures.

d) **Writing:** The ability to communicate with other people to share information using words, symbols or images is important for success at work, in a learning environment and everyday life. Improving your writing skills will ensure you are communicating clearly and effectively in various situations.

**PART 1**

**The Meaning of Percent**

Consumers, students, employees, and business people use the word percent frequently in everyday life. We learn to recognize common percents:

* Consumers may purchase clothing at a 50% off sale. Students may receive a grade of 87% on a test.
* Employees are used to a 15% payroll deduction for income tax.
* Business owners may make a 20% profit each year.
* You may talk about a 90% chance of rain today.

People use percents to give a quick comparison on a scale from 1 to 100.

**Percent** (%) means per hundred or hundredths.

The place value models below are hundredths flats. You can use a percent to tell how much is shaded.

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6 hundredths 43 hundredths 100 hundredths

6 out of 100 43 out of 100 100 out of 100

6% is shaded 43% is shaded 100% is shaded

*Example:* Write the percent for 16 out of 100

16 out of 100 = 16 hundredths = 16%

*Example:* Write the percent for 7 ½ hundredths.

7 ½ hundredths = 7 ½ %

**Part 1: The Meaning of Percents**

**Practice Your Skills**

**Exercise 1A**

**What percent of each flat is shaded?**

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**Exercise 1B**

**Write the percent.**

4. 10 out of 100\_\_\_\_\_\_\_\_\_\_\_ 5. 13 out of 100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. 7 out of 100\_\_\_\_\_\_\_\_\_\_\_\_ 7. 0 out of 100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. 98 out of 100\_\_\_\_\_\_\_\_\_\_\_ 9. 67 out of 100\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. 25 out of 100\_\_\_\_\_\_\_\_\_\_\_ 11. 18 out of 100\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Real Life Math**

Favourite Vacation Months

May 10

June 15

July 10

August 25

December 40

**Exercise 1C**

This chart shows the favourite months

to take vacation for 100 employees.

Use the chart to solve the problem.

12. How many employees said July was their favourite month to vacation?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. What percent of the employees said August was their favourite month to take

a vacation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. What percent of the employees said either May or June was their favourite

months to vacation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. What month did most of the employees say was their favourite month to take

a vacation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PART 2**

**Fractions and Percents**

Fractions can be written as percents.

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1/2 = 50/100 = 50%

When a fraction has a denominator of 100, just write the numerator with a percent symbol.

= 18% = 89%

*Example:* Write as a percent.

When a fraction has a denominator other than 100, write an equivalent fraction with a denominator of 100.

= x = = 35%

You can also divide to write a fraction as a percent.

*Example*: write 17/25 as a percent.

\_\_.68\_ = 68%

17/25 = 25)17.00

- 15 0

2 00

- 2 00

0

Step 1: Divide the numerator by the denominator. Remember, adding zeros after the last digit of a decimal does not change its value.

Step 2: Rewrite 68 hundredths as a percent.

**PART 2: Fractions and Percents**

**Practice Your Skills**

**Exercise 2A**

**Write as a percent.**

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| --- | --- | --- | --- | --- | --- |
| 1. |  | 2. |  | 3. |  |
|  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |
| 4. |  | 5. |  | 6. |  |
|  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |
| 7. |  | 8. |  | 9. |  |
|  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |
| 10. |  | 11. |  | 12. |  |
|  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |  | \_\_\_\_\_\_\_ |

**Exercise 2B**

**Write as a fraction.**

13. 3%\_\_\_\_\_\_\_\_\_\_\_\_ 14. 70%\_\_\_\_\_\_\_\_\_\_\_\_ 15. 49%\_\_\_\_\_\_\_\_\_\_\_\_

16. 10%\_\_\_\_\_\_\_\_\_\_\_\_ 17. 1%\_\_\_\_\_\_\_\_\_\_\_\_ 18. 6%\_\_\_\_\_\_\_\_\_\_\_\_

19.25%\_\_\_\_\_\_\_\_\_\_\_\_ 20. 110%\_\_\_\_\_\_\_\_\_\_\_\_ 21. 50%\_\_\_\_\_\_\_\_\_\_\_\_

22. 5%\_\_\_\_\_\_\_\_\_\_\_\_ 23. 9%\_\_\_\_\_\_\_\_\_\_\_\_ 24. 36%\_\_\_\_\_\_\_\_\_\_\_\_

25. 45%\_\_\_\_\_\_\_\_\_\_\_\_ 26. 85%\_\_\_\_\_\_\_\_\_\_\_\_ 27.40%\_\_\_\_\_\_\_\_\_\_\_

**Critical Thinking**

28. What whole number is 100% equal to? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

29. Explain how you would determine if 24% is greater than or less than

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**PART 3**

**Decimals and Percents**

Decimals can be written as percents.

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0.8 = 0.80 = = 80%

To write a decimal as a percent, express the decimal in hundredths.

*Example:* write 0.5 as a percent

0.5 = 50 hundredths

50 hundredths = 50%

*Example:* write 0.827 as a percent.

0.827 Move the decimal point two places to the right.

0.827 = 82.7%

To change a percent to a decimal, write the number without the percent sign and move the decimal point two places to the left.

*Example:* write 32% as a decimal.

32% = 0.32 move the decimal point two places to the left.

**PART 3: Decimals and Percents**

**Practice Your Skills**

**Exercise 3A**

Write as a percent.

1. 0.9\_\_\_\_\_\_\_\_ 2. 0.17\_\_\_\_\_\_\_\_ 3. 0.6\_\_\_\_\_\_\_\_

4. 0.04\_\_\_\_\_\_\_\_ 5. 0.387\_\_\_\_\_\_\_\_ 6. 0.09\_\_\_\_\_\_\_\_

7. 0.517\_\_\_\_\_\_\_\_ 8. 0.23\_\_\_\_\_\_\_\_ 9. 0.5\_\_\_\_\_\_\_\_

10. 0.1\_\_\_\_\_\_\_\_ 11. 0.492\_\_\_\_\_\_\_\_ 12. 0.111\_\_\_\_\_\_\_\_

13. 0.70\_\_\_\_\_\_\_\_ 14. 0.825\_\_\_\_\_\_\_\_ 15.0.4\_\_\_\_\_\_\_\_

**Exercise 3B**

Write as a decimal.

16. 37%\_\_\_\_\_\_\_\_ 17. 98%\_\_\_\_\_\_\_\_ 18. 3%\_\_\_\_\_\_\_\_

19. 42.9%\_\_\_\_\_\_\_\_ 20. 63.1%\_\_\_\_\_\_\_\_ 21. 14.2%\_\_\_\_\_\_\_\_

22. 2.9% \_\_\_\_\_\_\_\_ 23. 85% \_\_\_\_\_\_\_\_ 24. 9%\_\_\_\_\_\_\_\_

25. 4.3% \_\_\_\_\_\_\_\_ 26. 24% \_\_\_\_\_\_\_\_ 27. 1%\_\_\_\_\_\_\_\_

28. 6.3% \_\_\_\_\_\_\_\_ 29. 84.9% \_\_\_\_\_\_\_\_ 30. 3.7% \_\_\_\_\_\_\_\_

**Calculating**

You can use a calculator to help you find percents.

=1 ÷ 3 = 0.3333333 = 0.333 = 33.3%

Write each fraction as a decimal and as a percent. Use a calculator.

31. \_\_\_\_\_ 32. \_\_\_\_\_\_\_ 33. \_\_\_\_\_\_ 34. \_\_\_\_\_

**PART 4**

**A Percent of a Number**

A sweater that regularly sells for $48 is on sale for 20% off. How much will the savings be?

To find out a percent of a number, write the percent as a decimal and multiply.

Step 1: 20% = 0.20

Step 2 : $48

X 0.20

2 decimal places

96 0

$9.60

The savings on the sweater is $9.60.

*Example:* Megan wants to spend 27% of her salary for child care. If she earns $2,500 per month, how much can she afford to spend on child care?

To find out, write the percent as a fraction and multiply.

Step 1: x $2,500 = = 675

Step 2: 27% =

She can afford to pay $675 per month.

**Calculating**

You can use the % key on a calculator to find a percent of a number.

Find: 30% of 80.

Press: 80 x 30% = 24

**PART 4: A Percent of a Number**

**Practice Your Skills**

**Exercise 4A**

**Use a fraction to find the number.**

1. 20% of 62 \_\_\_\_\_\_\_\_ 2. 16% of 95\_\_\_\_\_\_\_\_

3. 6% of 49\_\_\_\_\_\_\_\_ 4. 43% of 80\_\_\_\_\_\_\_\_

5. 20% of 140\_\_\_\_\_\_\_\_ 6. 35% of 55\_\_\_\_\_\_\_\_

7. 49% of 110\_\_\_\_\_\_\_\_ 8. 64% of 85\_\_\_\_\_\_\_\_

9. 90% of 180\_\_\_\_\_\_\_\_ 10. 91% of 150\_\_\_\_\_\_\_\_

**Exercise 4B**

**Use a decimal to find the number.**

11. 10% of 190\_\_\_\_\_\_\_\_ 12. 47% of 74\_\_\_\_\_\_\_\_

13. 62% of 145\_\_\_\_\_\_\_\_ 14. 92% of 180\_\_\_\_\_\_\_\_

15. 75% of 150\_\_\_\_\_\_\_\_ 16. 27% of 550\_\_\_\_\_\_\_\_

17. 19% of 100\_\_\_\_\_\_\_\_ 18. 83% of 91\_\_\_\_\_\_\_\_

19. 42% of 80\_\_\_\_\_\_\_\_ 20. 8% of 25\_\_\_\_\_\_\_\_

**Calculating**

**Use the % key on a calculator to find the following numbers. Round your answers to the nearest tenth or cent.**

21. 12 % of 55\_\_\_\_\_\_\_\_ 22. 19% of 80\_\_\_\_\_\_\_\_

23. 14% of $38.70\_\_\_\_\_\_\_\_ 24. 20% of $229.99\_\_\_\_\_\_\_\_

25. 80% of $120.00\_\_\_\_\_\_\_\_ 26. 15% of 90\_\_\_\_\_\_\_\_

**PART 5**

**Problem Solving: Using Percent**

The local bookstore offers a certain percent off the cost of books to regular customers. The decrease in price is called the discount. What is the final cost of a $125 order with a 20% discount?

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| --- | --- | --- |
| **Step 1** | **Step 2** | **Step 3** |
| 20% = 0.20 | $125  X 0.20  0 0 0  250  $25.00 | $125.00  - 25.00  $100.00 |

Step 1: Write the percent as a decimal.

Step 2: Multiply the price of the books by the decimal.

Step 3 : Subtract the discount from the original price.

The final cost is $100.00

*Example:* Which is the better buy? A $30 blender at a 25% discount or the same blender reduced by $10?

**Calculating**

Step 1: Find the discounted price of the $30 blender.

Press: 30 x 25 % = 7.5

30 – 7.5 = 22.50

The blender costs $22.50

Step 2: Find the price of the blender reduced by $10

30 – 10 = 20

The blender costs $20.

The better buy is the blender reduced by $10.

**PART 5: Problem Solving Using Percent**

**Practice Your Skills**

**Real Life Math**

**Exercise 5A**

**Find the final price of each item.**

1. 15% discount on a $40 haircut. \_\_\_\_\_\_\_\_\_

2. 20% discount on a $345 airline ticket. \_\_\_\_\_\_\_\_\_\_

3. 30% discount on a $69.90 clock radio. \_\_\_\_\_\_\_\_\_\_

4. 25% discount on a $559.50 washing machine. \_\_\_\_\_\_\_\_\_\_

5. 5% discount on a $12,500 car. \_\_\_\_\_\_\_\_\_\_\_

6. 40% discount on a $429.70 television. \_\_\_\_\_\_\_\_\_\_

7. 10% discount on a $389.59 DVD player. \_\_\_\_\_\_\_\_\_\_

8. 45% discount on a $30.35 concert ticket. \_\_\_\_\_\_\_\_\_\_

**Real Life Math**

**Exercise 5B**

**Solve.**

9. Gail works in a clothing store. She makes 10% commission on all of the goods she sells. Yesterday, she sold $520 worth of goods. How much is her commission?

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10. John and Jill go out for dinner. The bill is $74.99. They leave a 15% tip. How much is the tip?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Exercise 5C**

**Which is the better buy?**

9. A $16.50 compact disc reduced by $2.00 or the same disc reduced 20%?

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10. A $140 telephone/answering machine at a 15% discount or a $160 telephone/answering machine at a 25% discount?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. A $115 raincoat at 30% off or the same raincoat reduced by $40?

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**Real Life Math**

**Module #9 Task-Based Activity: Calculating simple interest**

**OALCF Connection**

* A. Find and Use Information: A2. Interpret documents
* B. Communicate Ideas and Information: B3. Complete and create documents
* C. Understand and Use Numbers: C1. Manage money

A bank pays interest to each customer in return for using his money. Simple interest is the money paid to each customer on the principal, or money deposited into an account.

*Example:* June deposited $2,500 in her savings account for 2 years. How much simple interest did the money earn at 7%?

To find out, multiply the principal by the interest rate per year and the time expressed in years (y).

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| --- | --- | --- | --- |
| Interest (I) | = principal (p) | x rate (r) | x time (t) |
| I | = $2,500 | x 0.07 | x 2 |

$2,500 principal

X 0.07 rate

175.00

X 2 time

$350.00 simple interest

The money earned $350.00 in simple interest after 2 years.

Find the simple interest for each amount. Use I = p x r x t

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| **Principal** | **Rate** | **Time** | **Interest** |
| $325 | 10% | 2y |  |
| $500 | 6% | 3y |  |
| $1,000 | 7% | 2 ½ y |  |
| $1,450 | 9% | 2y |  |
| $800 | 5% | 4y |  |

**Module 9: Percents in Real Life**

**Review**

**Write the percent.**

1. 3 out of 100\_\_\_\_\_\_\_ 2. 16 out of 100\_\_\_\_\_\_\_

3. 49 out of 100\_\_\_\_\_\_\_ 4. 23 out of 100\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_ 6. \_\_\_\_\_\_\_ 7. \_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_ 9. \_\_\_\_\_\_\_ 10. \_\_\_\_\_\_\_

**Write as a fraction in simplest form.**

11. 5%\_\_\_\_\_\_\_ 12. 17%\_\_\_\_\_\_\_ 13. 35%\_\_\_\_\_\_\_

14. 8%\_\_\_\_\_\_\_ 15. 40%\_\_\_\_\_\_\_ 16. 29%\_\_\_\_\_\_\_

**Write as a decimal.**

17. 42%\_\_\_\_\_\_\_ 18. 4.7%\_\_\_\_\_\_\_ 19. 33.4%\_\_\_\_\_\_\_

20. 3.9%\_\_\_\_\_\_\_ 21. 6.3%\_\_\_\_\_\_\_ 22. 12%\_\_\_\_\_\_\_

**Use a fraction or a decimal to find the number.**

23. 18% of 40\_\_\_\_\_\_\_ 24. 12% of 52\_\_\_\_\_\_\_

25. 33% of 60\_\_\_\_\_\_\_ 26. 20% of $149.88\_\_\_\_\_\_\_

**Find the final price of each item.**

27. 15% discount on a $50 skirt\_\_\_\_\_\_\_

28. 20% discount on a $69 sweater\_\_\_\_\_\_\_