* A \_\_\_\_\_\_\_\_\_\_\_\_ is a ratio that compares a number to 100. To write a percent as a fraction, express the ratio as a fraction with a denominator of 100. DON’T FORGET TO SIMPLIFY!!!
* In the \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the ratio of a part of something to the whole (base) is equal to the percent written as a fraction.

 For example, what is 20% of 80?

and solve for a.



Remember, it’s also ok to set up an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. DO WHAT MAKES SENSE FOR YOU ☺

For example…

Translations:

“What” means \_\_\_\_\_\_\_

“of” means \_\_\_\_\_\_\_\_\_

“is” means \_\_\_\_\_\_\_\_\_

* What is 20% of 80?

You would set up the following equation:

x = 0.2(80)

* 16 is 20% of what number?

16 = 0.2(x)

* 16 is what percent of 80?

16 = (x) 80

*Express the following percentages as fractions.*

1. 60% 2. 120% 3. 2.5% 4. 0.4%

*Use the percent proportion to find each number.*

1. 25 is what percent of 125?
2. 14 is 20% of what number?
3. What number is 25% of 18?
4. What percent of 48 is 30?
5. 5% of what number is 3.5?
6. Find 0.5% of 250.
7. 15 is what percent of 12?
8. **Basketball** Madeline usually makes 85% of her shots in basketball. If she attempts 20, how many will she likely make?
9. **Card games** Juanita told her dad that she won 80% of the card games she played yesterday. If she won 4 games, how many did she play?
10. **Driver’s Ed** Kara needs to get a 75% on her driving education test in order to get her license. If there are 35 questions on the test, how many does she need to answer correctly?
11. **Test Scores** The table shows the number of points each student in Will’s study group earned on a recent math test. There were 88 points possible on the test. Express all answers to the **nearest tenth** of a percent.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Will | Penny | Cheng | Minowa | Rob |
| Score | 72 | 68 | 81 | 87 | 75 |

1. Find Will’s percent correct on the test.
2. Find Cheng’s percent correct on the test.
3. Find Rob’s percent correct on the test.
4. What was the highest percentage? The lowest?

**HW: Page P21**

**#11 – 31 odd**

**Show work!**

**Calculator Allowed**