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

Lesson 11 Percents Notes

How to change percentages, into fractions and decimals

**A percentage is a special fraction**.

The % says, “per hundred.”

For example, 47%, is simply another way of writing the fraction 47/100

You can almost see the 100 in the percentage sign

So to write a percentage as a fraction, you simply put it over 100 like this:

24% = 24/100

24% = 24/100 12/50 6/25

**Remember to try to write the fraction in its simplest terms**

Copy and complete this chart

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage | Fraction | Percentage | Fraction |
| 1. 23% | 23/100 | 7. 80% |  |
| 2. 24% |  | 8. 84% |  |
| 3. 55% |  | 9. 12% |  |
| 4. 20% | 1/5 | 10. 48% |  |
| 5. 17% |  | 11. 71% |  |
| 6. 78% |  | 12. 36% |  |

To change a fraction into a decimal, you divide the bottom number (the denominator) into the top number (numerator). For example, to change ¾ into a decimal, you would divide the 3 by the 4.

**Remember that a percentage is a fraction always has 100 as its denominator**

So, to change a percentage into a decimal, you always divide by 100

* For example, 35% as a fraction is 35/100 so to change this into a decimal, you divide 35 by 100

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

Lesson 11 Percents Written Practice

1 .Work out your percentage if you got 12 out of 25?

2.  Work out your percentage if you got 15 out of 25?

3. Work out your percentage if you got 17 out of 20?

4. Work out your percentage if you got 19 out of 24?

5. Work out your percentage if you got 17 out of 31?

6. A player scores 3 times out of 6 shots. What is their score percentage?

7. A player scores 4 times out of 10 shots. What is their score percentage?

8. A player scores 44 times out of 69 shots. What is their score percentage?

9. Work out 12.5 out of 26 as a percentage

10 .Calculate the score percentage if out of 15 shots 12 are successful?

11. Problem:

In a survey of 120 pupils it was found that 20% had personal stereos. How many pupils had personal stereos?