Homework # 14 review

$|-x + 100| = 21$ $-|1 + x| = -80$

1. **Compare:**

$|7 + 3|$ $|7| + |3|$ $|a - b|$ $|b - a|$

                                                                 $|3a|$ $3 * |a|$

$|7 - 3|$ $|3 - 7|$

2. **Solve the equation**:   *Remember:*   **$|a| = a$ if $a \geq 0$;**   **$|a| = -a$ if $a < 0$**

   $2x + |3x| = x + 1$

Percent

1 percent of quantity is a $\frac{1}{100}$ th part of it.

1. One percent (**1%**) means 1 per 100.

2. How many squares do we have to shade so that we cover 10% of the line, 15%, 20%, 25%?

3. How many percent is :

a. $\dfrac{3}{100}$ b. $\dfrac{7}{10}$ c. $\dfrac{5}{25}$ d. $\dfrac{15}{60}$

e. 0.53   f. 0.04   g. 15 of 100   h. 15 of 60

4. Find:

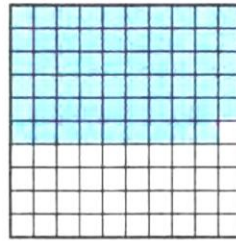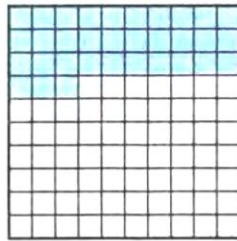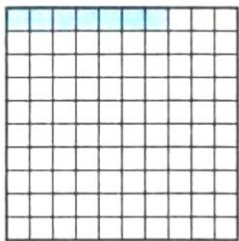What is 100% of 80? | 50% of 80? | 10% of 80? | 12% of 80?

> Finding 10% of a number is dividing this number by 10.

5. 40% of what number is 12?

6. What percent of 48 is 12?

7. What percent of each square is shaded on the picture below?

8. There was 25% of the cake left after a Birthday party. Ann ate 60% of the leftover cake. How much of the original cake did she eat?

9. Ann ate 25% of the cake the first day, on the second day she ate 85% of the leftover cake. How much of the whole cake did she eat altogether?