

Homework 14.



1. Represent decimal as fraction:
0.3, 0.05, 1.37, 2.5, 1.0001

2. Represent the fraction as decimal:

Examples:

$$\frac{2}{5} = \frac{2 \cdot 2}{5 \cdot 2} = \frac{4}{10} = 0.4; \quad \frac{3}{20} = \frac{3}{10 \cdot 2} = \frac{3 \cdot 5}{2 \cdot 10 \cdot 5} = \frac{15}{100} = 0.15$$

$$\frac{9}{5} = \frac{9 \cdot 2}{5 \cdot 2} = \frac{18}{10} = \frac{10}{10} + \frac{8}{10} = 1.8$$

$$\frac{5}{8}; \quad \frac{7}{16}; \quad \frac{2}{5}; \quad \frac{3}{10}; \quad \frac{17}{8};$$

3. Evaluate the sums by the most convenient way.

a. $2\frac{1}{4} + 2\frac{1}{2} + 3\frac{1}{4} + 3\frac{1}{2} + 4\frac{1}{4} + 4\frac{1}{2} + 5\frac{1}{4} + 5\frac{1}{2}$

b. $1\frac{1}{3} + 4\frac{1}{6} + 1\frac{3}{4} + 2\frac{2}{3} + 3\frac{1}{4}$

4. Evaluate the differences:

a. $4\frac{1}{5} - 2\frac{3}{10};$ b. $7\frac{1}{9} - 4\frac{1}{3};$ c. $2\frac{2}{7} - 1\frac{3}{5};$ d. $6\frac{1}{4} - 3\frac{2}{5}$

5. One orange and two apples are three times as expensive as a pear, but seven oranges and an apple are eight times as expensive as a pear. What is more expensive, an orange or an apple?
6. The bus A comes every 9 minutes and the bus B comes every 12 minutes. If both buses arrive at exactly 10:00 am, what is the first time they will both arrive together after 11:00 am?
7. Cities A, B, and C, together with the straight roads connecting them, form a triangle. It is known that the direct route from A to B is 200 km shorter than the

detour through C, and the direct route from A to C is 300 km shorter than the detour through B. Find the distance between cities B and C.