Fraction word problems

Grade 5 Word Problems Worksheet

Read and answer each question:

It is harvest season at Joe’s Farm.

1. He has two pumpkin fields and the total area of the two pumpkin fields is \(3 \frac{2}{5}\) acres. The big field yield \(3 \frac{2}{5}\) tons of pumpkins and the small \(2 \frac{1}{12}\) tons of pumpkins. What is the total yield of pumpkins?

2. The biggest zucchini from Joe’s farm is \(2 \frac{5}{8}\) pounds, which is \(1 \frac{1}{12}\) pound more than the average weight of zucchinis from his farm. What is the average weight of zucchinis from his farm?

3. Farm Joe ordered 3 bags of soil last month. Each bag weighed \(4 \frac{2}{5}\) kilograms. He used the first bag in a week. At the end of this month, there were \(2 \frac{3}{4}\) kilograms of soil left in the second bag and \(\frac{7}{8}\) kilograms of soil left in the third bag. How much soil was used in this month?

4. Last month, the price of one pound of carrots was \(\$2 \frac{1}{5}\) and Joe sold \(12 \frac{1}{12}\) pounds of carrots. This month, the price has increased by \(\$1 \frac{1}{10}\) and Farmer Joe only sold \(5 \frac{1}{8}\) pounds of carrots. What is the price of a pound of carrots this month?

5. There were \(24 \frac{1}{4}\) crates of tomatoes in the barn but \(7 \frac{3}{5}\) crates of tomatoes were rotten and had to be thrown out. Joe sold \(8 \frac{1}{3}\) crates and canned \(7 \frac{5}{6}\) crates of tomatoes. How many crates of tomatoes were left?

6. The farmer’s market opens for \(2 \frac{1}{5}\) hours in the morning and \(3 \frac{2}{3}\) hours in the afternoon. How long is the farmer’s market open in a day?
Answers

1. \[ \frac{3^2}{5} + 2 \frac{1}{12} = 5 \frac{29}{60} \]

\( \frac{3}{8} \) of the staff are female.

2. \[ 2 \frac{5}{8} - 1 \frac{1}{12} = 1 \frac{13}{24} \]

The average weight of zucchinis from his farm is \( 1 \frac{13}{24} \) pounds.

3. \[ 4 \frac{2}{5} + \left( \frac{4}{5} - 2 \frac{3}{4} \right) + (4 \frac{2}{5} - \frac{7}{8}) = 9 \frac{23}{40} \]

\( 9 \frac{23}{40} \) kilograms of soil were used this month.

4. \[ 2 \frac{1}{5} + 1 \frac{1}{10} = 3 \frac{3}{10} \]

The price of a pound of carrots this month is \( \$ 3 \frac{3}{10} \).

5. \[ 24 \frac{1}{4} - 7 \frac{3}{5} - 8 \frac{1}{3} - 7 \frac{5}{6} = \frac{29}{60} \]

\( \frac{29}{60} \) crate of tomatoes was left.

6. \[ 2 \frac{1}{5} + 3 \frac{2}{3} = 5 \frac{13}{15} \]

The farmer’s market is open \( 5 \frac{13}{15} \) in a day.