

EXERCISE IX.

1. By what number must the sum of $4\frac{1}{2}$, $7\frac{1}{2}$, $9\frac{1}{2}$ and 11 be increased to give $54\frac{1}{2}$?
2. A farmer sold 3072 pounds of barley on Monday, 3216 pounds on Tuesday, 2832 pounds on Wednesday, 3504 pounds on Thursday, and 86 bushels on Friday. He received 68 cents per bushel for it; how much money did he get?
3. After the sum of 98 equal numbers has been multiplied by 23 the result is 11939438; find one of the numbers.
4. Find the value of 7 loads of wheat, each containing 28 bags, and each bag weighing 135 pounds, when 12 bushels are worth \$11.16.
5. The difference between two numbers is $182\frac{1}{2}$; the greater number is $432\frac{1}{2}$; find 9 times the smaller number.
6. If $\frac{1}{5}$ of a mine be worth \$7200, what is the value of $\frac{1}{4}$ of the remainder of it?
7. Add together the sum, difference, product and quotient of $\frac{1}{2}$ and $\frac{1}{3}$.
8. Find the prime factors of 8778.
9. John can do a work in 8 days; James can do the same work in 10 days, Peter in 12 days, and Henry in 15 days. In what time can they together do a work 6 times as great?
10. Twelve cows are worth as much as six oxen, and 32 oxen are worth as much as 16 horses, and 9 horses are worth \$1296; find the value of two yoke of oxen and six cows.