

4. Express in Roman characters what you must add to 1,050 x 120 to make 107 x 2,060.

Ans. XCIVCDXX.

5. A person buys 25 sheep at \$4.25 each, and sells them at \$4.95 each after spending \$10 on them. Find his gain or loss.

Ans. Gain \$7.50.

6. A merchant will give a boy a dozen marbles for 2 cents but the boy says he wants 5 cents worth. How many more marbles will he get? *Ans.* 18 marbles.

7. A clerk gets a salary of \$600 each year. He spends each week \$3.25. If there are 52 weeks in a year, how many years will it take him to save enough to buy a house worth \$1,293? *Ans.* 3 years.

8. A farmer sells 25 bags of barley each containing 2 bushels, at 60 cents a bushel, and buys hens with the money at 30 cents each. How many does he get? *Ans.* 100.

Third Class Senior.

1. A merchant buys paper at \$1.20 per ream, and sells it at 8 cents per dozen sheets. Find his gain on half a ream. *Ans.* \$1.

2. The fore-wheel of a waggon is 7 feet 6 inches in circumference, and the hind-wheel is 12 feet. How many turns will the one make more than the other in going 1 mile? *Ans.* 264.

3. A grocer mixes 8 pounds tea worth 30 cents per pound, 7 pounds worth 35 cents per pound, and 6 pounds worth 40 cents per pound. Find selling price of mixture per pound in order to gain \$1.15.

Ans. 40 cents.

4. How many rods are there in 7 miles, 5 furlongs, 6 chains, 11 yards. *Ans.* 2,466.

5. In 3 years a man makes 300 pairs of shoes, making each succeeding year 25 pairs more than the preceding year. How many pairs did he make the second year.

Ans. 100.

6. Divide \$1944 among 13 persons giving to 5 of them a double portion. Find what each of the 5 will get. *Ans.* \$216.

7. Two rows of four-foot wood extend side by side 30 feet. If each row be 9 feet high, find the value of the wood at \$3.20 per cord. *Ans.* \$54.

8. A, B. and C. spend \$162, \$297, \$351, respectively, in buying cattle at a uniform price per head. How many do they all buy? *Ans.* 30.

Third Class Junior.

1. A speculator buys sheep at \$4.75 each, and by selling them at \$5.37 each he gains \$10, after spending \$2.40 on them for fodder? How many does he buy? *Ans.* 20.

2. (a) How many times must 12 be subtracted from 60044 to leave 8? (b) What number must be added to 82304 to make it exactly divisible by 126?

Ans. (a) 5003. (b) 100.

3. A man spends \$21 in buying equal quantities of oats and barley, the former at 35 cents per bushel, the latter at 70 cents. How many bushels of grain does he buy?

Ans. 40.

4. A field is 1,124 feet long and 706 feet wide. How many steps of 3 feet each will a boy take in walking around it?

Ans. 1,220.

5. A man earns \$12 a week, and saves during the year \$447.20. How much does he spend each week? *Ans.* \$3.40

6. John and James together have \$175. John has \$27.50 more than James. How much has each?

Ans. John \$101.25. James \$73.75.

7. If 8 ounces of tea be worth 30 cents, find the value of 4 pounds 4 ounces of tea.

Ans. \$2.55.

8. Find the value of the following:

300 pounds pork at \$15 per barrel.

150 " flour " \$5.88 " "

1000 " barley " 72 cts. per bushel.

Ans. \$42.