

The agent sold it to a farmer for \$175, which was $\frac{1}{2}$ more than it cost him. Find (a) the prime cost of the machine; (b) the rate of profit made out of the farmer.

Ans. (a) \$100; (b) 75 per cent.

6. A farmer in driving to market observes that the hind wheel of his waggon which is 13 ft. in circumference has made exactly 180 turns less than the fore wheel which is 9 ft. in circumference. Find (a) how much less than a mile he has gone, (b) how many turns the smaller wheel has made.

Ans. (a) 5 yards; (b) 585.

7. A stationer bought 2 reams of note paper at \$1.75 per ream. He sold $\frac{1}{2}$ of it in small quantities at the rate of 6 sheets for 5 cents, and the balance at $12\frac{1}{2}$ cents per quire. Find his gain (a) on the whole quantity of paper; (b) on the paper sold in small quantities.

Ans. (a) \$3.30; (b) \$2.70.

8. A certain number of boys bought a basket of grapes containing $13\frac{1}{2}$ pounds at 10 cents per pound. One-third of the number agreed to pay 6 cents each, $\frac{1}{4}$ of them 8 cents each, and the others 9 cents each. Find (a) the number of boys; (b) the average contribution.

Ans. (a) 18; (b) $7\frac{1}{2}$ cents.

9. When wood is worth \$3.25 per cord a merchant is billed \$34.12 $\frac{1}{2}$ for a car-load 28 ft. long and 8 ft. wide. How high is the wood piled?

Ans. 6 feet.

10. A reaping-machine takes a swathe of 13 ft. 9 in. How far will a team travel in reaping a 10 acre field?

Ans. 6 miles.

CURIOUS ANSWERS.

The following specimens were culled, unchanged in spelling, expression or punctuation, from the answers to the history and literature papers at the last entrance examination.

HISTORY.

Question 2. "The wars of the Roses were started to rescue from infidels the sepecular of our Saviour."

"A quarrel not much larger than a man's hand now in 1455 began to darken the Lancastrians."

"In the time of Henry VI. he became a

little silly and the imbesis (imbecile?) Charles became regent during a time and as he once tasted royal blood he did not like to give it up when Henry became well, so there was a war arose."

3. "Elizabeth established religious, defeated the Aramanda, formed good laws, and invented the naval forces."

"As she was a Prodestan the art of religion was chiefly founded in England."

5. "Wm. Pitt was a prophice he told people what was going to happen when there were going to be wars or any thing like that."

"Wm. Pitt was a nobleman, he had a son and he was forced by a tyrant to try to kill his son. But he did it and he didn't hurt his son. The shot went right through the middle of the apple and Wm. Pitt was asked the reason he did it and he replied that if it had harmed his son that he would have killed the man who forced him to do it."

6. "This was commencent of penicular war which lasted 6 years in which wessley trampled upon many of bonepart's best generals."

7. "Mr. Gladstone has been primear of England for a long time but lately he has been thrown out by the conservatories."

8. "Henry VIII. was important because he married so often and got so many of his wives executed."

"Henry VIII. was important because he had six wives and only three children."

LITERATURE.

Question 1 (a) "Snowy wing," means "a white iceberg," "a wing 'll over snow."

"Shall fan" "she can fan herself with the wing that is cold."

(d) "Mart is a place that is cold, main is a place that is not so cold as mart," "Main is were it is sort of fence around were."

(h) "Groaning cargo of despair means a load of unhealthy food" "means the load is all over the ship and the men are groaning over it with despair," "means when they would be all drunk they would be making a dreadful noise and likely swearing and fighting," "Leathern drug means medicine wrapped in leather."