

Third Division.

1. During the six years ending 1886, there were in the United States 3903 strikes and 2182 lockouts, and the total number of employees involved in them was 1,478,172; the direct loss of the employers was \$34,164,914, and of the employees \$59,948,882.—*United States Labour Bureau.*

Which lost most and by how much? What was the total loss? What was the loss of each employee? What was the average number of employees involved in each strike or lockout? What was the average loss from each strike or lockout? [25]

2. How many pins at 250 to the oz. will a ship hold which carries 500 tons? [20]

3. A man spends in three months as much as he earns in two months. What does he save out of an annual income of £360 15s.? [20]

4. I pay \$3.75 for an article of which the original price was \$4. How much per cent. was the price reduced? [20]

5. Find the simple interest on \$512 for two years, four months, at 6 per cent. [20]

6. A street $\frac{3}{4}$ of a mile long contains $1\frac{1}{2}$ acres. Find its breadth. [20]

7. A watch which gains 5 seconds in every 3 minutes was set right at 6 a.m. What was the correct time when the watch indicated 3.15 p.m. on the same day? [25]

Second Division.

1. During the six years ending 1886, there were in the United States 3903 strikes and 2182 lockouts, and the total number of employees involved in them was 1,478,172; the direct loss of the employers was \$34,164,914, and of the employees \$59,948,882.—*United States Labour Bureau.*

Which lost most and by how much? What was the total loss? What was the loss of each employee? What was the average number of employees involved in each strike or lockout? What was the average loss from each strike or lockout? [16]

2. In deep sea sounding it was recently found that it took 24' 10" for the weight at the end of the sounding apparatus to reach

bottom in 2096 fathoms of water. Express this depth in miles and decimal of a mile, and give the rate at which the weight sank in miles per hour. [16]

3. A watch which gains 5 seconds in every 3 minutes was set right at 6 a.m. What was the correct time when the watch indicated 3.15 p.m. on the same day? [16]

4. If 6 compositors in 16 days of 10 $\frac{1}{2}$ hours each can set in type 720 pages each of 60 lines with 40 letters in a line, in how many days of 7 hours each will 9 compositors set 960 pages each of 45 lines with 50 letters in a line? [17]

5. In the early part of the year the Government offered to take French bronze pennies from the public at the rate of 13 for a shilling. The Government would be able to exchange them again at the rate of 252 for a sovereign. What would the exchequer gain or lose on every million pennies so received? [17]

6. What principal will produce in 2 years at 6 per cent. compound interest \$650.14? [17]

7. For how much must a four months' note without interest be made so that it may yield \$1000 when discounted at a bank at 6 per cent.? [17]

8. Find the square root of $37\frac{1}{4}$. [17]

9. If 5 men can mow a square meadow in 4 days, find the time 9 men will take to mow a square meadow half as long again as the former. [17]

First Division.

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