
paper: lined paper 2 sheets, front and back of sheet one, front of sheet 2
The back of sheet 2 had the following written on it: Arithmetic, 90, Lizzie Golden
7-3/4" wide by 12-5/16" high. The paper was folded in quarters.

If one doz. costs .20 cts three doz. will cost $3 \times .20$ or 60 cts. If he sells nine for .25 he will sell as many 9's as 9 is contained in 36 or three doz. or 4 times. Therefore if he sells nine for .25 for four nines he would receive \$1.00. If they cost .60 and sell for \$1.00 he would gain fhte difference between \$1.00 - \$.60 or .40 gain.

II

(a)

$$8-9/10 - 3-7/12 + 10-4/5 - 8-4/15$$

$$90/10 - 43/12 = (543 - 215) / 60 = 319 / 60$$

$$54/5 - 131/15 = (162 - 131) / 15 = 31 / 15$$

$$319/60 + 31/15 = (319 - 124) / 60 = 443 / 60 \Rightarrow 23/60 \text{ Ans}$$

(b)

$$(4-2/3 - (6-2/3 \times 3/5)) / (2-3/4 + (8-3/4 / 13-1/8)) \quad 14/3 - 4/1 = (14 - 12) / 3 = 2/3$$

$$11/4 = ((35/4) / 105/8) = 2/3 \quad 11/4 + 2/3 = (33 + 8) / 12 = 41/12$$

$$41/12 \times 2/3 = 41/8 = 5-1/8 \text{ Ans}$$

III

$$(87 - .09 = 9.5) \times .125 - (9.8 + 96 - .005) \times .005$$

$$87 - 09 = 86.91 + 9.5 = 96.41 \times .125 = 12.05125$$

$$9.8 + 96 = 105.8 - .005 = 105.795 \times .005 = .528975$$

$$12.05125 - .528975 = 11.522275 \text{ Ans}$$

IV

$$18 \text{ cwt} - 95 \text{ lbs} = 1895 \text{ lbs} \times .05-3/4 = \$108.96-1/4 \text{ cost}$$

$$1895 \text{ lbs} / 3/5 = 1137 \text{ lbs} \times .13 = \$147.81 \text{ Selling P}$$

$$\$147.81 - \$108.96-1/4 = \$38.84-3/4 \text{ gain}$$

V

157 hrs 50' 36"

122 hrs 26' 15"

35 hrs 24' 21" divided by 15 = 2hrs

30

5

60

300

24

324 minutes divided by 15 = 21 minutes

30

24

15

9

60

540

21

561 seconds divided by 15 = 37-2/3

45

111

105

6/15 = 2/5

2 hr 21' 37-2/5"

VI

960 lbs x \$8.35 = \$8016.00 cost

960 x .40 = \$384.00 x \$8.90 = \$3417.60

960 - 384 = 576 x .25 = \$144.00 x \$8.75 = \$1260

576 - 144 = 432 x \$8.00 = 3456.00

\$12.60 + 3417 + 3456 = \$8133.60 Selling P.

\$8133.60 - \$8016. = \$117.60 gain

VII

$$\begin{aligned}
 \$1.00 - 10 &= 90 & 22,500 / 1.25 &= 18000 \\
 \$22,500 / .90 &= \$25000 & 90 &= \$20,000 \\
 25,000 \times \$1.25 &= \$31,250 \text{ cost}
 \end{aligned}$$

VIII

$$\begin{aligned}
 6 \text{ mo at } 8\% &= .04 & 100 + .04 &= \$1.04 \\
 \$9650.80 / \$1.04 &= \$9279.61 \text{ Present Worth} \\
 \$6980.80 - 9279.615 &= 371.18 \text{ discount}
 \end{aligned}$$

IX

ie	ie	2e	2e
15		12	
8	960	16	(x)

$$\begin{aligned}
 12 \times 16 \times \$960 &= 184320 \\
 15 \times 8 &= 120 \\
 187320 / 120 &= \$1104
 \end{aligned}$$

X

Right triangle: height = 31.9, base = 12, hypotenuse = 35

$$\begin{aligned}
 35 \times 35 &= 1224 \\
 12 \times 12 &= 144 \\
 1225 - 144 &= 1081 \\
 \text{the square root of } 1081 &= 31.9 \text{ ft}
 \end{aligned}$$