① a) $25 \times 64 = \frac{100}{4} \times 64 = 100 \times \frac{64}{4} = 100 \times 16 = 1600$

b) $25 \times 320 = \frac{100}{4} \times 320 = 100 \times \frac{320}{4} = 100 \times 80 = 8000$

c) $884 \times 25 = 884 \times \frac{100}{4} = \frac{884}{4} \times 100 = 221 \times 100 = 22100$

d) $3212 \times 25 = 3212 \times \frac{100}{4} = \frac{3212}{4} \times 100 = 803 \times 100 = 80300$

② a) $44 \cdot \frac{3}{8} + 44 \cdot \frac{7}{8} = 44\left(\frac{3}{8} + \frac{7}{8}\right) = 44\left(\frac{10}{8}\right) = 44\left(\frac{5}{4}\right) = \frac{44}{4} \times 5 =$
$11 \times 5 = 55$

b) $\left(\frac{4}{7} + \frac{7}{9}\right) - \frac{3}{7} = \frac{7}{9} + \left(\frac{4}{7} - \frac{3}{7}\right) = \frac{7}{9} + \frac{1}{7} = \frac{49+9}{63} = \frac{58}{63}$

[note: I think the intended problem was
$\left(\frac{4}{7} + \frac{7}{9}\right) + \frac{3}{7} = \frac{7}{9} + \left(\frac{4}{7} + \frac{3}{7}\right) = \frac{7}{9} + 1 = 1\frac{7}{9}$]

c) $48 \times 99\frac{5}{12} = 48\left(100 - \frac{7}{12}\right) = 48 \cdot 100 - 48 \cdot \frac{7}{12}$
$= 4800 - \frac{48}{12} \cdot 7$
$= 4800 - 4 \cdot 7$
$= 4800 - 28 = 4772.$

d) $1234 \cdot \frac{331}{783} + 1234 \cdot \frac{452}{783} = 1234\left(\frac{331}{783} + \frac{452}{783}\right)$
$= 1234(1) = 1234$

④ (P.M.SA, p48) a) Prob 2 $24, \frac{80}{3}, \frac{25}{3}$

Prob 3 $49, 52, 45$

b) $\frac{4}{48} \times \frac{23}{12} = 92$, $\frac{4}{320} \times \frac{13}{80} = 52$

⑤ (P.M. SA, p 52)

Probs 5) 5, 4, 5

6) $\frac{1}{6}$ m $\left(\frac{1}{3}\cdot\frac{1}{2}\right)$

7) $\frac{3}{10}$ ft $\left(\frac{2}{5}\cdot\frac{3}{4}\right)$

8) $\frac{3}{5}$ Kg $\left(\frac{3}{4}\cdot\frac{4}{5}\right)$

9) $\frac{1}{6}$ $\left(\frac{1}{5}\cdot\frac{5}{6}\right)$

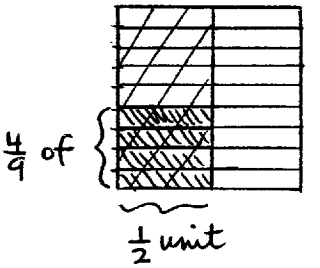
10) $\frac{3}{8}$ sq meters $\left(\frac{5}{8}\cdot\frac{3}{5}\right)$

⑥ (Primary WORKBOOK SA)

a) p 22 Prob (2a) in Exer 22

$\frac{4}{9} \times \frac{1}{2}$ = "$\frac{4}{9}$ of $\frac{1}{2}$"

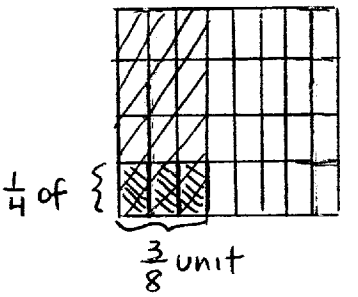
= $\frac{4}{18}$ $\left(= \frac{2}{9}\right)$



Prob (2b) in Exer 22

$\frac{1}{4} \times \frac{3}{8}$ = "$\frac{1}{4}$ of $\frac{3}{8}$"

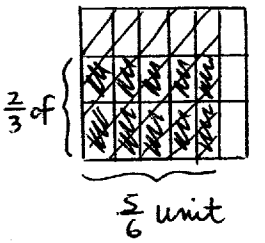
= $\frac{3}{32}$



b) p 59 Prob 2 in Exer 23

$\frac{2}{3}$ of $\frac{5}{6}$ lb = $\frac{2}{3} \times \frac{5}{6}$

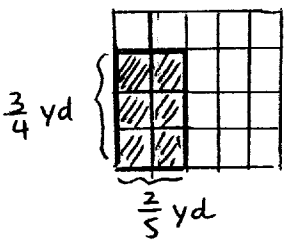
= $\frac{10}{18}$ = $\frac{5}{9}$ lb



Prob 3 in Exer 23

Area = $\frac{3}{4}$ yd $\times$ $\frac{2}{5}$ yd = $\frac{3}{4} \times \frac{2}{5}$ sq yds

= $\frac{6}{20}$ = $\frac{3}{10}$ sq yds



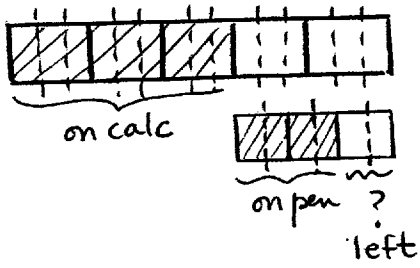
Prob 4 in Exer 23

Spent $\frac{3}{5}$ of money on calculator → $\frac{2}{5}$ of money left

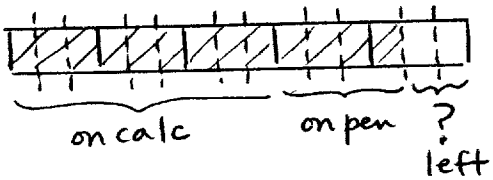
spent $\frac{2}{3}$ of $\frac{2}{5}$ (of money) on pen or $\frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$ (of money)

She spent $\frac{3}{5} + \frac{4}{15} = \frac{9}{15} + \frac{4}{15} = \frac{13}{15}$ of money She has $1 - \frac{13}{15} = \frac{2}{15}$ left

(DIAGRAM on next page →)



(on one strip

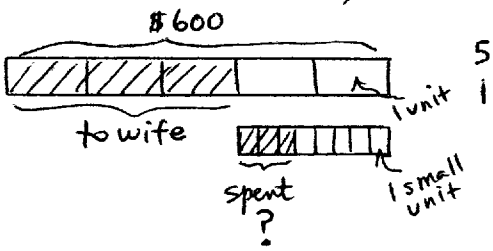


)

(10) Exercise 28 PRIMARY WORKBOOK 5A p 68-69

1) $\frac{3}{4}$ of $\frac{1}{3}$ of 120 = $\frac{3}{4} \times \frac{1}{3} \times \frac{120}{1}$ = 30 eggs left

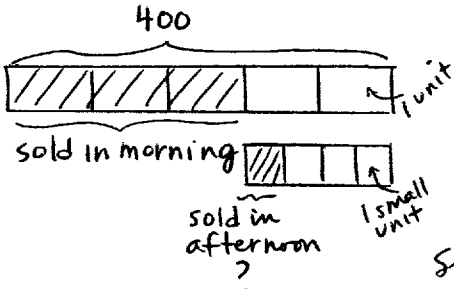
2)



5 units = 600
1 unit = 120
So 4 small units = 120
1 small unit = 30
He spent 3 × 30 = $90

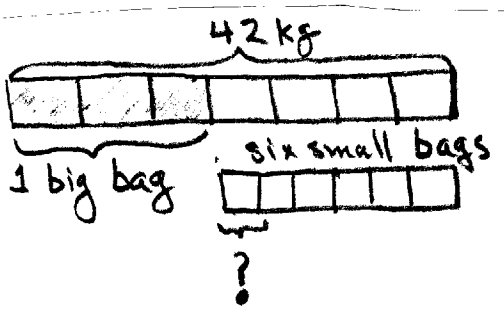
(alternatively
gave $\frac{3}{5}(600)$ or $360 to wife
had $240 left
($\frac{2}{5}(600)$ or 600 − 360)
spent $\frac{3}{8}(240)$ or $90)

3)



5 units = 400
1 unit = 80
So 2 small units = 80
1 small unit = 40
She sold 40 tarts in the afternoon.

(alt
sold $\frac{3}{5}(400)$ or 240 in a.m
had 160 left
($\frac{2}{5}(400)$ or 400 − 240)
sold $\frac{1}{4}(160)$ or 40 in p.m)

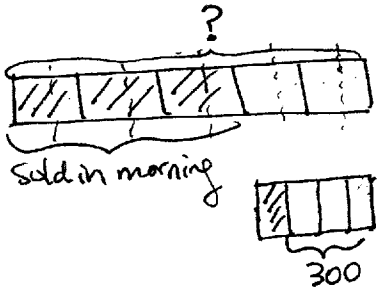


7 units = 42
1 unit = 6
4 units = 24
6 small units = 24
1 small unit = 4
So each small bag holds 4 kg.

(Alternatively, the six small bags together hold $\frac{4}{7}$ of 42 kg or $\frac{4}{7} \times 42$ kg = 24 kg
So each small bag holds $\frac{1}{6}$ of 24 kg = 4 kg.)

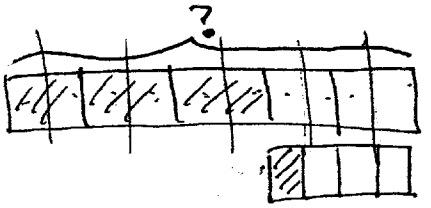
Exercise 29 PRIMARY WORKBOOK 5A p 70-71

1)

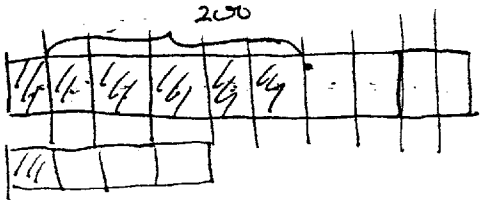


3 units = 300
1 unit = 100
10 units = 1000
She made 1000 tarts.

2)

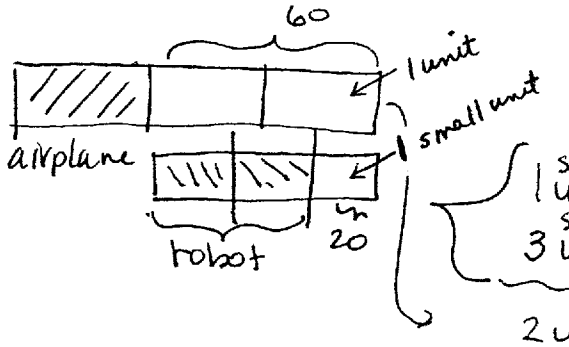


Now Compare



5 units = 200
1 unit = 40
So 10 units = 400
She made 400 tarts.

3)



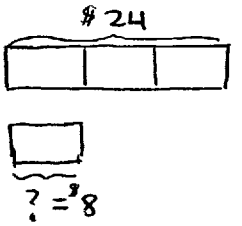
1 sm. unit = $20
3 sm. units = $60
2 sm. units = $40 (robot)

2 units = $60
1 unit = $30 (airplane)

He spent a total of $40 + $30 = $70 altogether

4) CALCULATOR

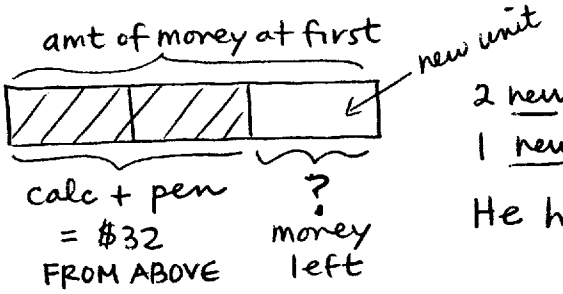
PEN



3 units = 24
1 unit = 8

Calc and pen cost 24 + 8 = $32

Next



2 new units = 32
1 new unit = 16

He had $16 left

(11) a) MD
b) MD
c) PD
d) PD
e) MD
f) PD