




To the world, you are one person, but to your child, you are THE WORLD!

Make the world beautiful & fill with 

To: mom&dad

One day.. I'll make
you proud. I promise.



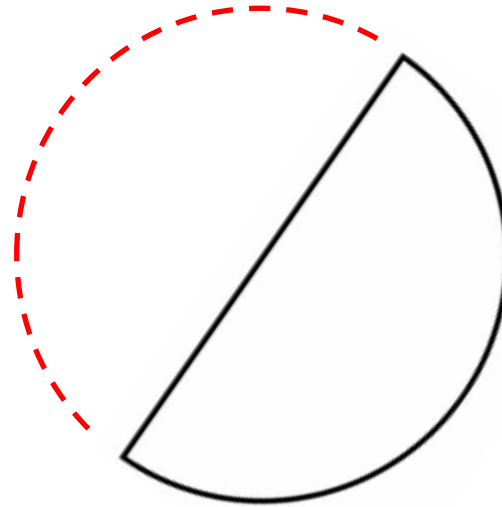
To better support our children in learning Mathematics



The correct terms

\$4

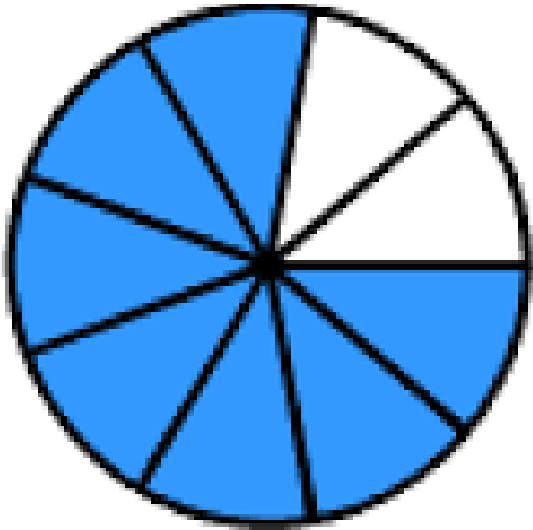
cm^2



$\frac{1}{2}$

m^3

$\frac{3}{5}$



$\frac{7}{9}$



The correct terms

Mass in	factors	Weight
kg and g	product	in
		Newton

$$2 \times 3 = 6$$

The correct terms

Denomination of Singapore currency



The correct terms

Denomination of Singapore currency



The correct terms

Denomination of Singapore currency



The correct terms

Denomination of Singapore currency



The correct terms

Denomination of Singapore currency



The correct terms

Denomination of Singapore currency



Allocation of Marks

Missing / Wrong Units

Deduction of half marks from the answer mark in Booklet B / Paper 2 for any missing standardised units (e.g. \$, kg, g) in the final answer for 3-mark to 5-mark questions.

Wrong Use of Equal Sign (=)

Deduction of half marks in Booklet B / Paper 2 for any inappropriate use of equal sign (=).

E.g. '=' is used instead of ' \approx ' for equations involving rounding (P3/4) / rounding off (P5/6)

E.g. $123.95 \approx 124.0$ (nearest tenths)

Mathematical Statements/ Equations

Topic	Acceptable ✓	Not Acceptable X
Whole Numbers	$1 \text{ unit} = 30$ $\frac{1}{2} \text{ ----- } 30$	$\frac{1}{2} = 30$
Measurement	$6000 \text{ cm}^3 = 6 \text{ litres}$ $240 \text{ cm} = 2.4 \text{ m}$	$3000 \times 2 = 6000$ $= 6$ $120 \times 2 = 240$ $= 2.4 \text{ m}$ $200 = 2 \text{ m}$

Mathematical Statements/ Equations

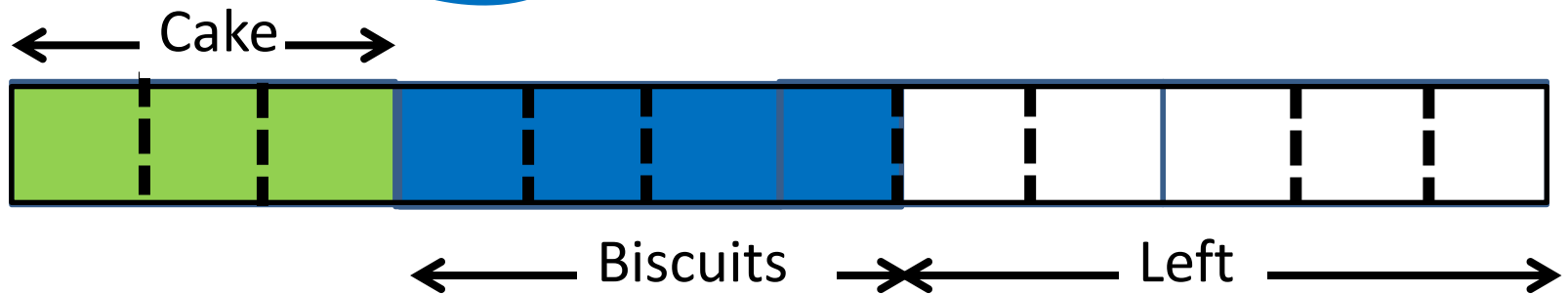
Topic	Acceptable ✓	Not Acceptable X
Percentage	$\frac{1}{2} = 50\%$ or $\frac{1}{2} \times 100 = 50$ 50% of 40 = 20 50% ----- 300 50% of books = 30	$\frac{1}{2} \times 100 = 50\%$ 50% = 300

Fractions - Skill

Jane used $\frac{1}{4}$ **of a packet of sugar** for baking cakes.

She used $\frac{1}{3}$ **of it** for baking biscuits.

What **fraction of the packet of sugar** was left?



$$\frac{1}{4} = \frac{3}{12}$$

$$\frac{1}{3} = \frac{4}{12}$$

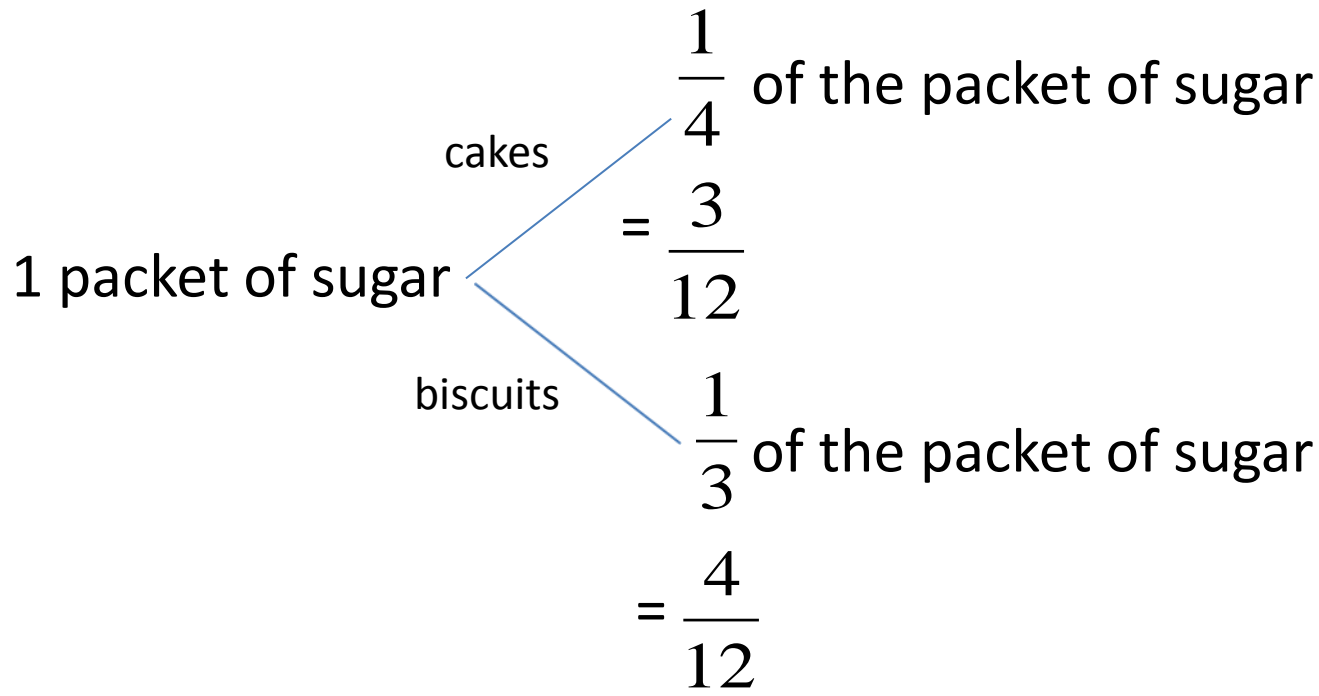
$\frac{5}{12}$ of the packet of sugar was left.

Fractions - Skill

Jane used $\frac{1}{4}$ **of a packet of sugar** for baking cakes.

She used $\frac{1}{3}$ **of it** for baking biscuits.

What fraction **of the packet of sugar** was left?



$$\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$$

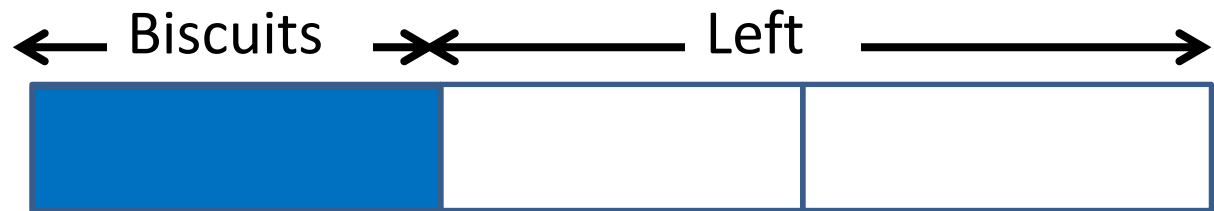
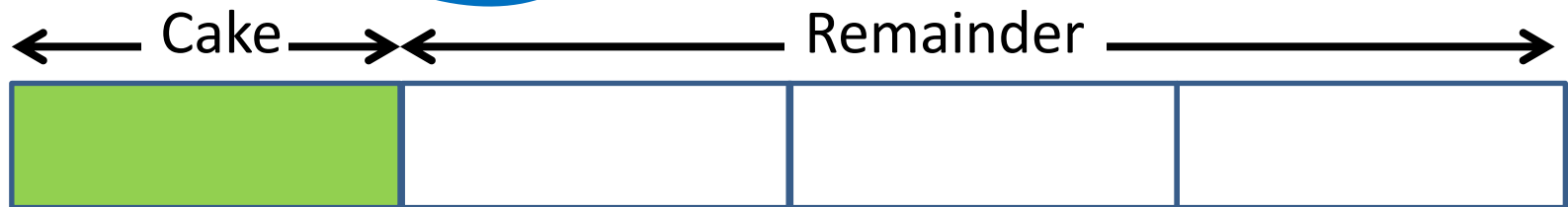
$$1 - \frac{7}{12} = \frac{5}{12}$$

Fractions - Skill

Jane used $\frac{1}{4}$ **of a packet of sugar** for baking cakes.

She used $\frac{1}{3}$ **of the remainder** for baking biscuits.

What **fraction of the packet of sugar** was left?



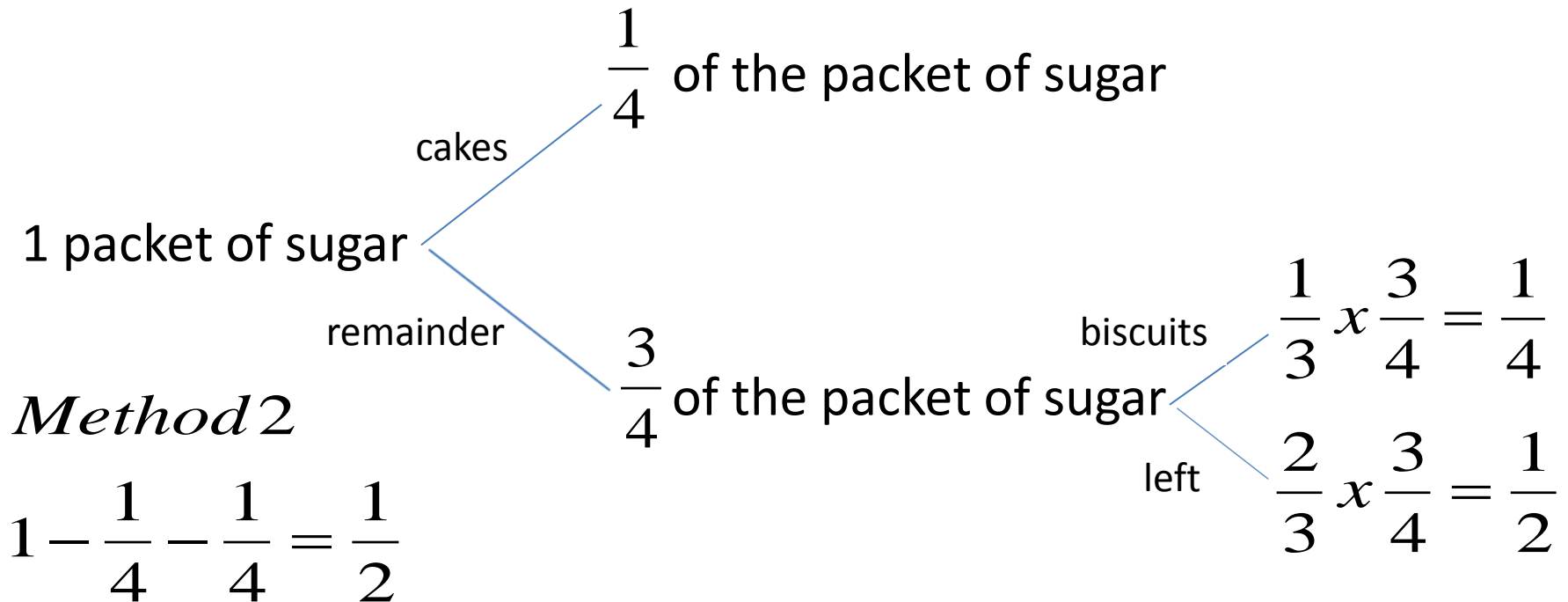
$$\frac{2}{4} \text{ of the packet of sugar was left.}$$
$$= \frac{1}{2}$$

Fractions - Skill

Jane used $\frac{1}{4}$ **of a packet of sugar** for baking cakes.

She used $\frac{1}{3}$ **of the remainder** for baking biscuits.

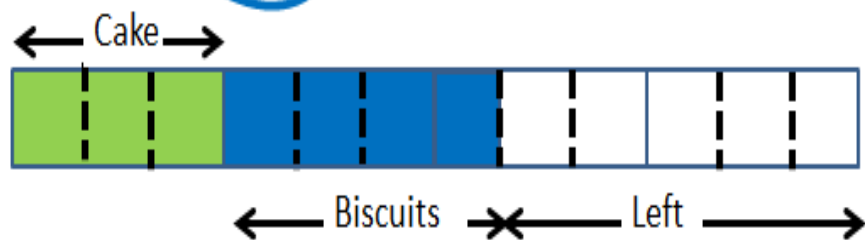
What fraction **of the packet of sugar** was left?



Jane used $\frac{1}{4}$ of a packet of sugar for baking cakes.

She used $\frac{1}{3}$ of it for baking biscuits.

What fraction of the packet of sugar was left?



$$\frac{1}{4} = \frac{3}{12}$$

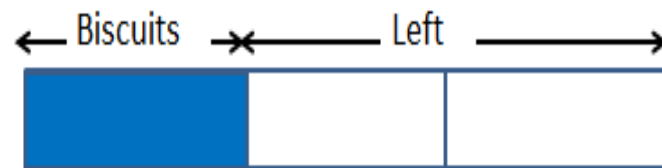
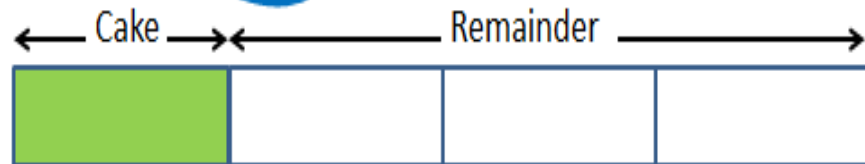
$\frac{5}{12}$ of the packet of sugar was left.

$$\frac{1}{3} = \frac{4}{12}$$

Jane used $\frac{1}{4}$ of a packet of sugar for baking cakes.

She used $\frac{1}{3}$ of the remainder for baking biscuits.

What fraction of the packet of sugar was left?



$$\frac{2}{4} \text{ of the packet of sugar was left.}$$
$$= \frac{1}{2}$$

ReVision

Don't let this be you...



Plan ahead!

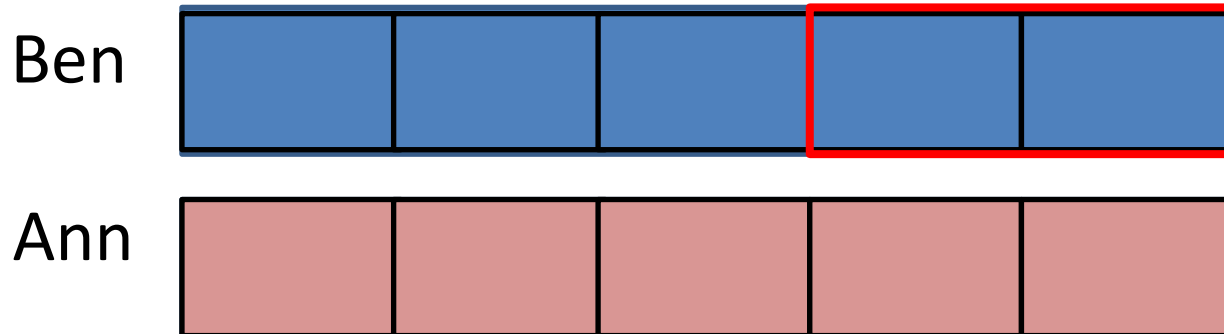
3. Ann and Ben had the same number of stamps at first.

Ben gave $\frac{2}{5}$ of his stamps to Ann.

Ann, in return, gave Ben $\frac{3}{7}$ of what she had.

In the end, Ann had 10 stamps fewer than Ben.

What was the number of stamps Ann had at first?



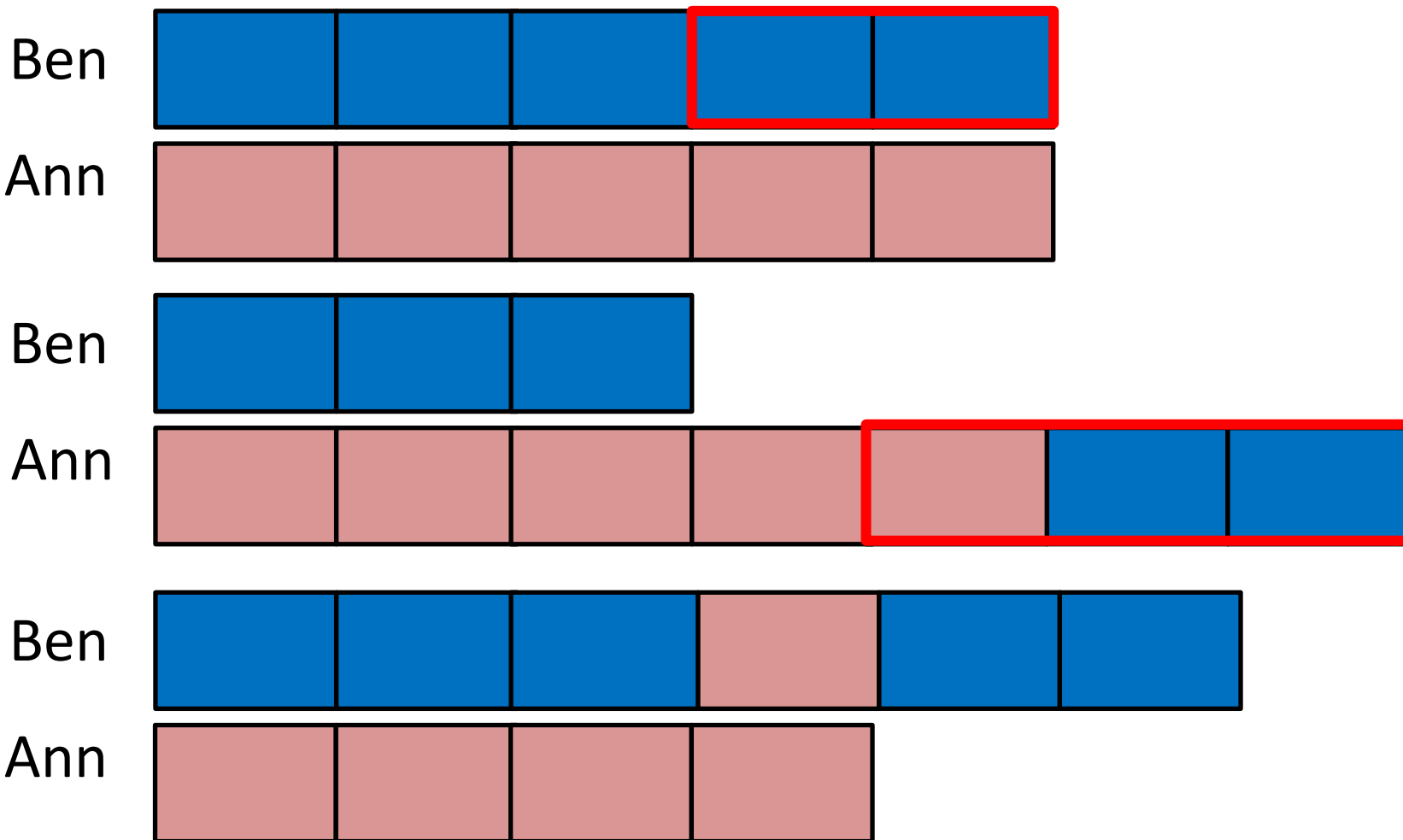
3. Ann and Ben had the same number of stamps at first.

Ben gave $\frac{2}{5}$ of his stamps to Ann.

Ann, in return, gave Ben $\frac{3}{7}$ of what she had.

In the end, Ann had 10 stamps fewer than Ben.

What was the number of stamps Ann had at first?



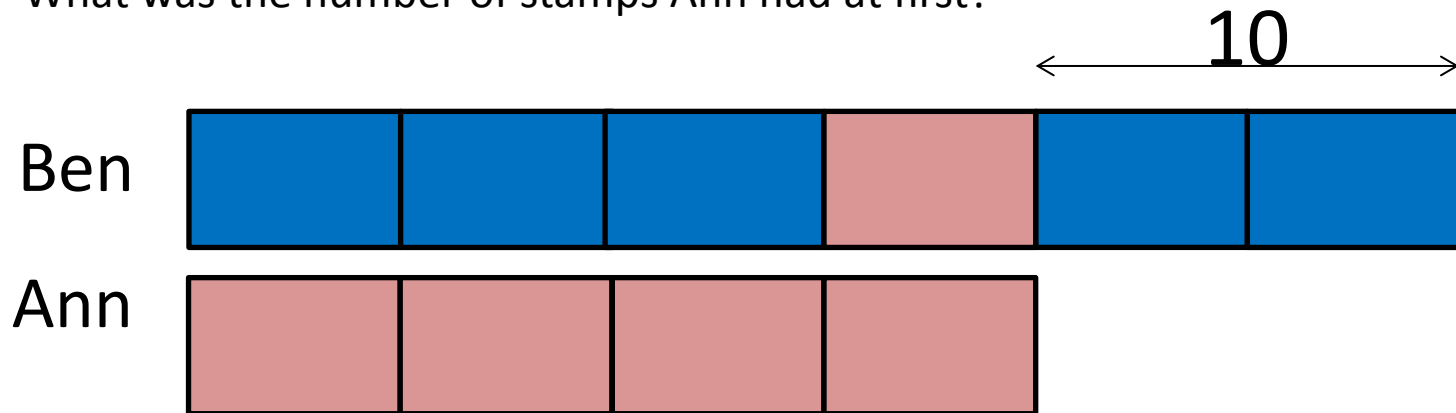
3. Ann and Ben had the same number of stamps at first.

Ben gave $\frac{2}{5}$ of his stamps to Ann.

Ann, in return, gave Ben $\frac{3}{7}$ of what she had.

In the end, Ann had 10 stamps fewer than Ben.

What was the number of stamps Ann had at first?



$$2u=10$$

$$1u=5$$

$$5u=25$$

Ans: 25

Q4. Ann and Ben had the same number of stamps at first. Ben gave $\frac{2}{7}$ of his stamps to Ann. Ann, in return, gave 25% of what she had after receiving from Ben. In the end, Ben had 50 stamps more than Ann. What was the number of stamps Ann had at first?

5. **Sam** and **Nancy** each earned some money during the school holidays. If **Sam** spent \$45 each week and **Nancy** spent \$15 each week, **Sam** would have **\$5 left** when **Nancy** had spent all her money. If **Sam** spent \$2 each week and **Nancy** spent \$5 each week, **Sam** would have **\$980 left** when **Nancy** had spent all her money. How much did **Sam** earn?

S : N

Case 1 45 : 15

 15 : 5

Case 2 2 : 5

5. **Sam** and **Nancy** each earned some money during the school holidays. If **Sam** spent \$45 each week and **Nancy** spent \$15 each week, **Sam** would have **\$5 left** when **Nancy** had spent all her money. If **Sam** spent \$2 each week and **Nancy** spent \$5 each week, **Sam** would have **\$980 left** when **Nancy** had spent all her money. How much did **Sam** earn?

S	:	N	$13u = 980 - 5 = 975$
---	---	---	-----------------------

45	:	15	$1u = 75$
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Case 1	15	:	5	$2u = 150$
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Case 2	2	:	5	$150 + 980 = 1130$
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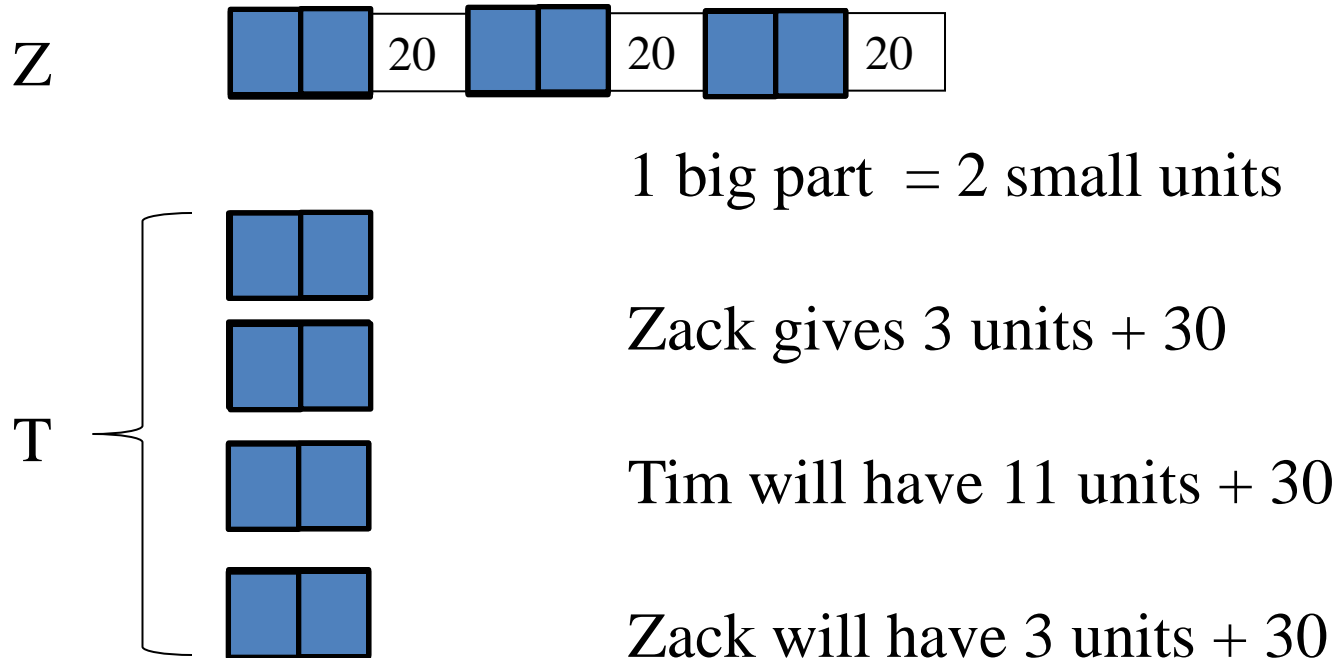
Ans: \$1130

6. $\frac{1}{3}$ of Zack's marbles is 20 more than $\frac{1}{4}$ of Tim's marbles. If Zack gives half of his marbles to Tim, Tim will have 64 more marbles than Zack.

a. How many marbles does Zack have at the start?

b. What fraction of Zack's marbles is Tim's marbles at the start?

Leave your answer in the simplest form.

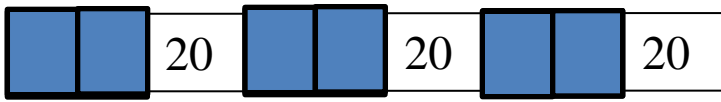


6. $\frac{1}{3}$ of Zack's marbles is 20 more than $\frac{1}{4}$ of Tim's marbles. If Zack gives half of his marbles to Tim, Tim will have 64 more marbles than Zack.

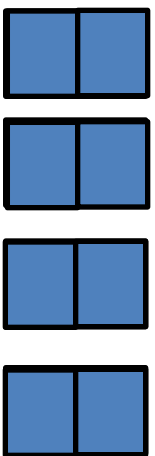
a. How many marbles does Zack have at the start?

b. What fraction of Zack's marbles is Tim's marbles at the start?
Leave your answer in the simplest form.

Z



T



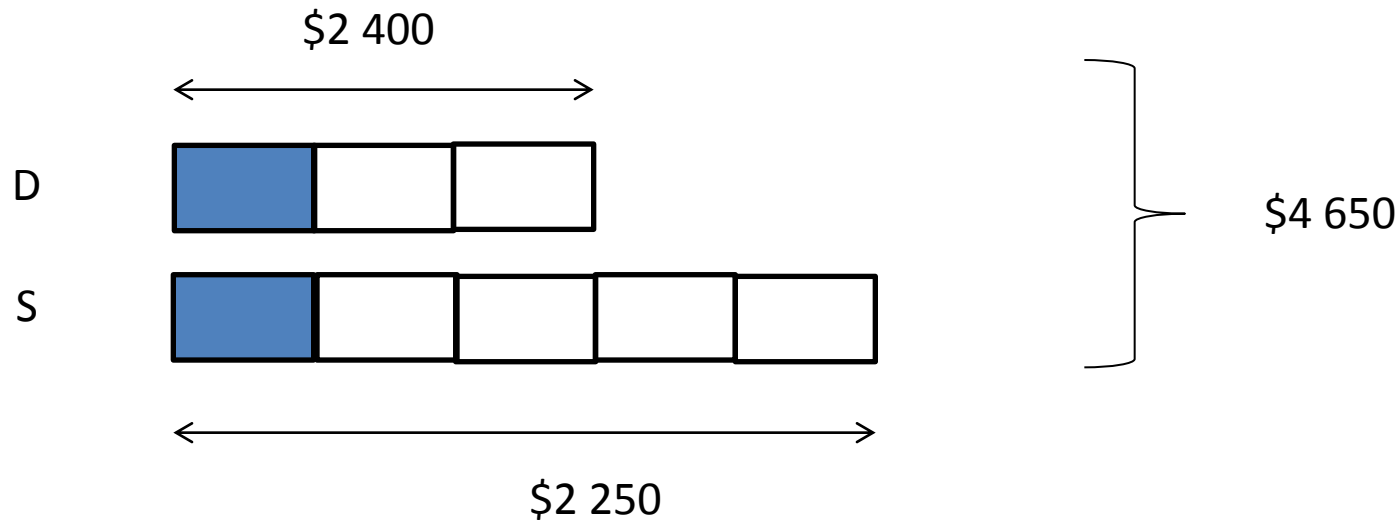
$$\begin{array}{r}
 (11 \text{ units} + 30) \\
 - (3 \text{ units} + 30) \\
 \hline
 8 \text{ units} = 64 \\
 1 \text{ unit} = 8
 \end{array}$$

Zack has $(6 \times 8) + 60 = \underline{\underline{108}}$

Tim has $8 \times 8 = 64$

$$\frac{64}{108} = \frac{16}{27}$$

7. Miss Tan bought some **scarves and dresses** from a shop for **\$4 650**. She paid **\$150 less for the scarves than dresses**. **Each dress cost \$14 more than each scarf**. The **number of dresses bought was 60% of the number of scarves** bought. How many scarves did she buy?



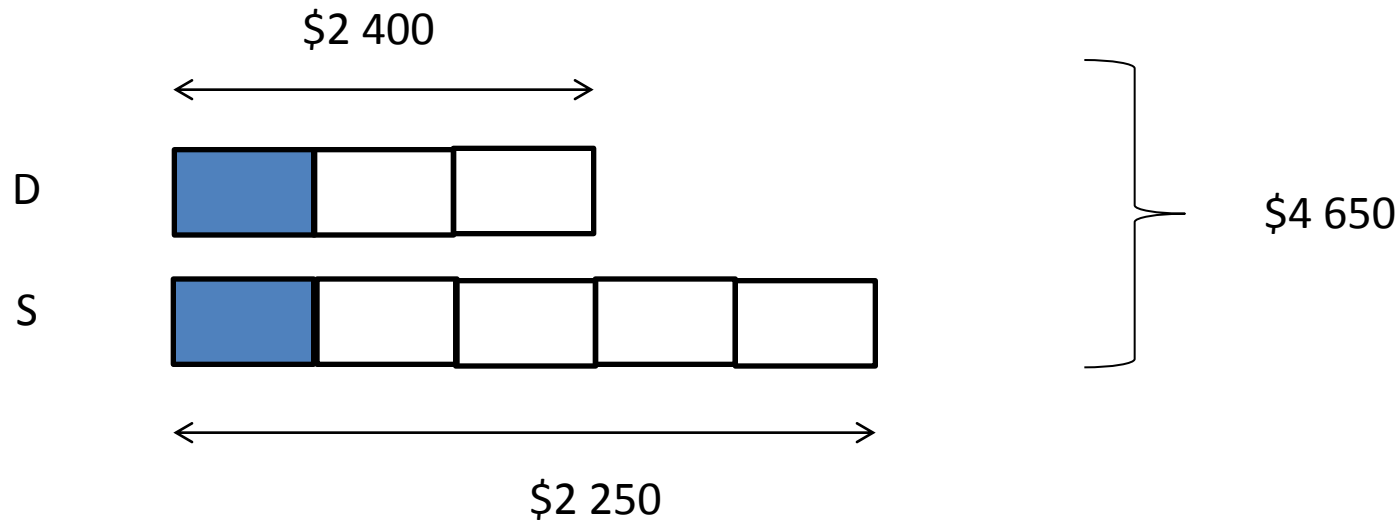
$$\$4\,650 - \$150 = \$4\,500$$

$$\$4\,500 \div 2 = \$2\,250 \text{ (Paid for scarves)}$$

$$\$2\,250 + \$150 = \$2\,400 \text{ (Paid for dresses)}$$

* Must be same number of items to compare prices

7. Miss Tan bought some **scarves and dresses** from a shop for **\$4 650**. She paid **\$150 less** for the scarves than dresses. **Each dress cost \$14 more than each scarf**. The **number of dresses** bought was **60% of the number of scarves** bought. How many scarves did she buy?

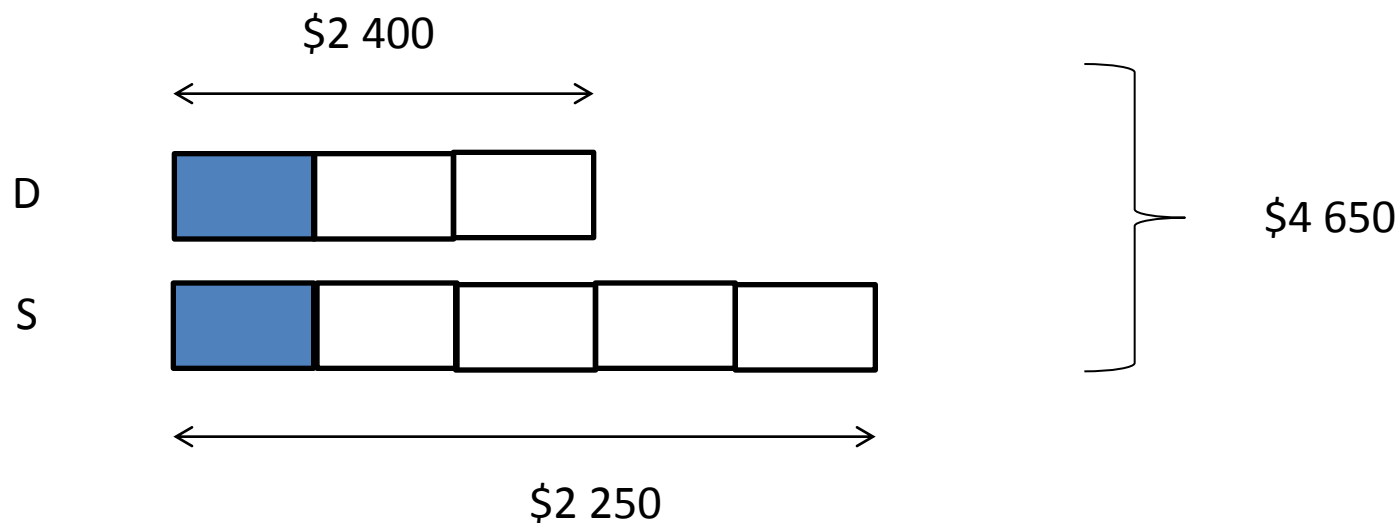


$$\$2\,400 \div 3 = \$800 \text{ (1 unit of dresses)}$$

$$\$2\,250 \div 5 = \$450 \text{ (1 unit of scarves)}$$

* Now we can compare the difference in price

7. Miss Tan bought some **scarves and dresses** from a shop for **\$4 650**. She paid **\$150 less** for the scarves than dresses. **Each dress cost \$14 more than each scarf**. The **number of dresses** bought was **60% of the number of scarves** bought. How many scarves did she buy?



$\$800 - \$450 = \$350$ (Big difference in price: 1u of dress vs 1u of scarf)
 $\$14$ (Small difference in price: 1 pc of dress vs 1 pc of scarf)

$\$350 \div 14 = 25$ (No. of pc in 1 unit)

$5 \times 25 = \underline{\underline{125}}$ (No. of scarves bought)

8. A fruit vendor spends a total of \$100.80 on papayas, oranges and mangoes. The number of papayas is $\frac{1}{3}$ the number of oranges. The number of mango is $\frac{1}{2}$ the number of papayas. The ratio of the price of a papaya, an orange and a mango is 9 : 2 : 12. If the mango cost \$2.40, what is the total number of fruits bought by the fruit vendor?

Number of fruits

M : P : O

1 : 3

1 : 2

2 : 6

1 : 2 : 6

Price

M : P : O

12 : 9 : 2

\$2.40 : \$1.80 : \$0.40



* 1 basic set has 9 fruits

8. Continue. A fruit vendor spends a total of \$100.80 on papayas, oranges and mangoes.what is the total number of fruits bought by the fruit vendor?

Number of fruits

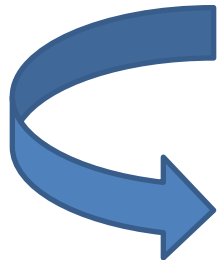
Price

M : P : O

M : P : O

1 : 2 : 6

12 : 9 : 2



** 1 basic set has 9 fruits*

\$2.40 : \$1.80 : \$0.40

$$\$2.40 \times 1 = \$2.40$$

$$\$1.80 \times 2 = \$3.60$$

$$\$0.40 \times 6 = \$2.40$$

$$\$100.80 \div \$8.40 = 12 \text{ sets were bought}$$

$$12 \times 9 = \underline{\mathbf{108}} \text{ fruits were bought in total}$$

$$\$2.40 + \$3.60 + \$2.40 = \$8.40$$

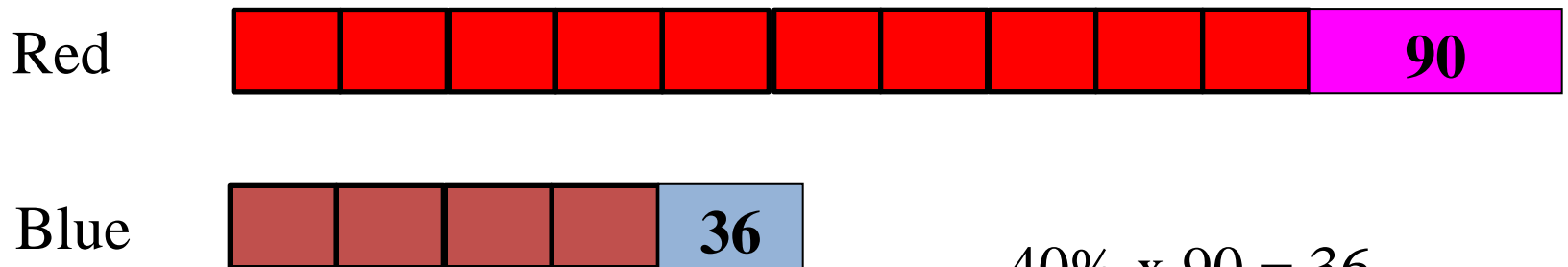
** 1 set cost \$8.40*

9. Container A and Container B contain some blue and red marbles. In container A, there are 50% as many blue marbles as red marbles. In container B, there are 40% as many blue marbles as red marbles. There are 90 more red marbles in Container B than Container A. If there is a total of 270 blue marbles in both containers, how many red marbles are there in container A?

Container A



Container B

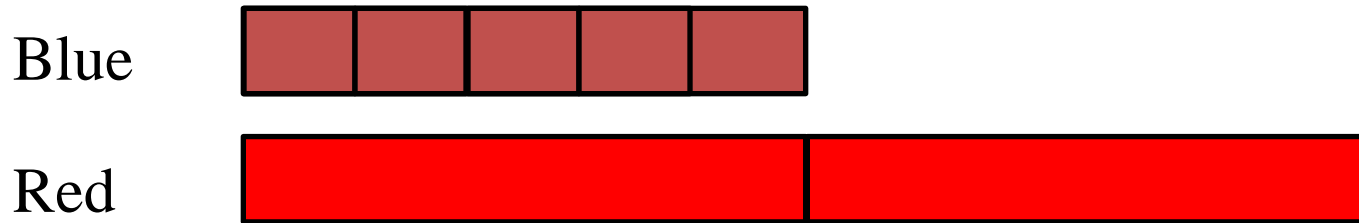


$$40\% \times 90 = 36$$

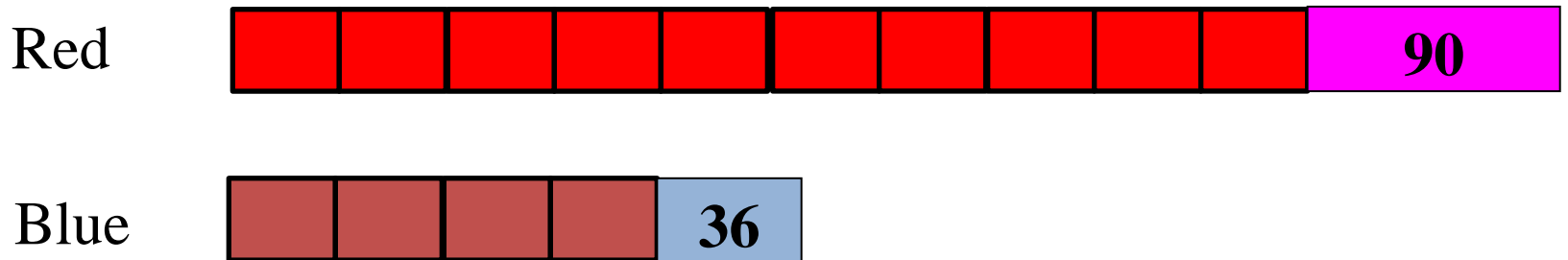
9. *Continue*

If there is a total of 270 blue marbles in both containers, how many red marbles are there in container A?

Container A



Container B



$$5u + 4u = 9u \qquad 9u = 270 - 36 \qquad 10u = 26 \times 10 = \underline{260}$$
$$\qquad \qquad \qquad = 234$$

$$9u + 36 = 270 \qquad 1u = 234 \div 9 = 26$$

Thank You
for your participation.

