

TIS Singapore Math Parent Workshop G3-5

OCTOBER 2015



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Why Singapore Math?

- ▶ Noticing patterns
- ▶ Making math problems visual
- ▶ Understanding of math concepts
- ▶ Problem solving (word problems)
- ▶ Communicating understanding

Singapore Math Process

C-P-A

Concrete-Pictorial-Abstract

Big ideas in G3-5

- ▶ Read and write numbers to a million+
- ▶ Solid understanding of place value
- ▶ Quick recall of basic facts
- ▶ Written form of addition, subtraction
- ▶ Written form of multiplication and division
- ▶ Draw models of word problems
- ▶ Explain and show how you worked it out

Let's do a G3 Problem

Baker Ben baked 328 tarts.

He baked another 64 tarts.

He packed all the tarts into 8 similar boxes.

How many tarts were there in each box?

Steps to solving word problems

- ▶ Read the problem, underline question
- ▶ Write a statement
- ▶ Read sentence by sentence and put the information into a bar model
- ▶ Put a ? on the model
- ▶ Work it out with a math equation
- ▶ Put the answer into the statement

Let's do a G3 Problem

Baker Ben baked 328 tarts.

He baked another 64 tarts.

He packed all the tarts into 8 similar boxes.

How many tarts were there in each box?

There are _____ tarts in each box.

Let's do a G3 Problem

Baker Ben baked 328 tarts.

He baked another 64 tarts.

He packed all the tarts into 8 similar boxes.

How many tarts were there in each box?

Ben's Tarts 328

328 tarts	64 more
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$$328 + 64 = 392$$

$$392 \div 8 = 49$$

?	?	?	?	?	?	?	?
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There are 49 tarts in each box.

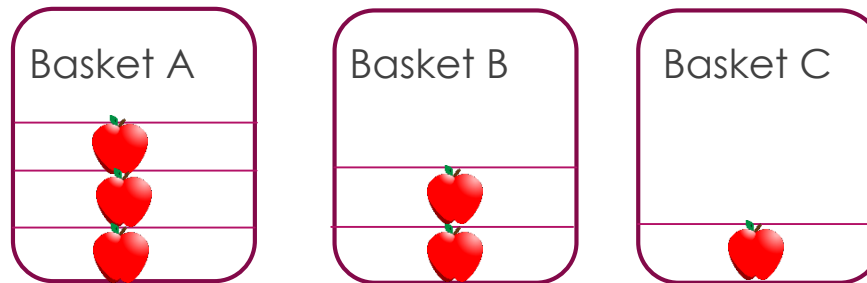
Let's do a G4 Problem

Mr Lim packed 396 apples. Each apple had a mass of about 24g. He put them into three different baskets. The mass of the apples in Basket A was 3 times that of the apples in Basket C. The mass of the apples in Basket B was twice that of the apples in Basket C. The mass of the empty basket C was 140g. What was the total mass of Basket C and the apples in it?

The total mass of Basket C and the apples in it was _____.

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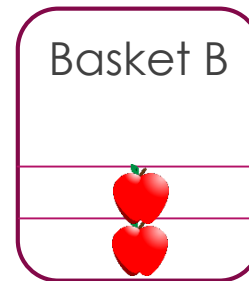
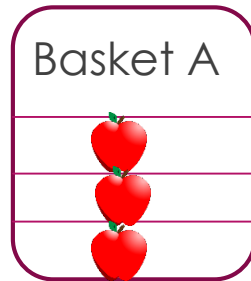
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Mr. Lim 396 apples

Mass of each 24g

$$\begin{aligned} \text{Total mass} &= 396 \times 24 \\ &= 9505\text{g} \end{aligned}$$



$$\text{Mass of apples in Basket C} = 9505 \div 6 = 1584$$

$$\begin{aligned} \text{Mass of apples in Basket C and mass of the empty basket was} \\ 1584 + 140 \end{aligned}$$

The total mass of Basket C and the apples in it was 1724g.

Let's do a G5 problem

During a triathlon, Sharon swam $\frac{1}{4}$ of the total route and cycled $\frac{3}{5}$ of the remaining route. She jogged the rest of the route. If she jogged 3600m, find the total distance of the route.

The total distance of the route is _____

Let's do a G5 problem

During a triathlon, Sharon swam $\frac{1}{4}$ of the total route and cycled $\frac{3}{5}$ of the remaining route. She jogged the rest of the route. If she jogged 3600m, find the total distance of the route.

- ▶ swam $\frac{1}{4}$ of the total route
- ▶ cycled $\frac{3}{5}$ of the remaining route
- ▶ jogged the rest - jogged 3600m

The total distance of the route is _____

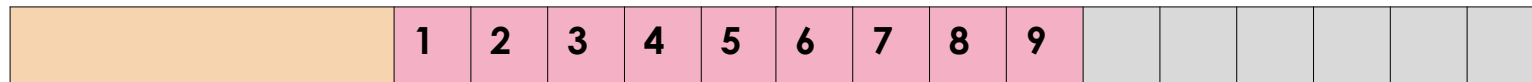
Let's do a G5 problem

During a triathlon, Sharon swam $\frac{1}{4}$ of the total route and cycled $\frac{3}{5}$ of the remaining route. She jogged the rest of the route. If she jogged 3600m, find the total distance of the route.

Swam $\frac{1}{4}$ total



Cycled $\frac{3}{5}$ of remainder

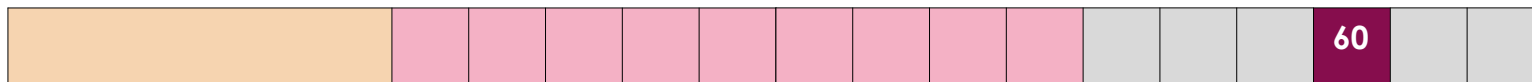


$$\frac{3}{5} * \frac{3}{4}$$

$$= \frac{9}{20}$$

Jogged 3600m

$$3600/6=60$$



The total distance of the route is 12000m (12km).

How can you help your child at home?

- ▶ Have math conversations everyday
- ▶ Practice basic facts
- ▶ Model good learning, find out if you don't know
- ▶ Make appointment to attend the homework club
- ▶ Play math games and board games

Questions