



 <https://www.thethinkacademy.com/>

CONTENTS

<i>What is Think Academy?</i>	1
<i>Topic 1: Addition and Subtraction Strategy</i>	6
<i>Topic 2: Counting Solid Shapes</i>	16
<i>Topic 3: Column Addition and Column Subtraction</i>	22
<i>Topic 4: More and Less</i>	34
<i>Topic 5: Equal and Balanced</i>	41
<i>Topic 6: Lining Up</i>	51
<i>Answers</i>	55

Think Academy US ONLINE

Pre-K & Lower Elementary Math Program

Think Academy Pre-K and Lower Elementary Math Program is designed for ages **3–8**, offering a structured, year-round learning path based on North American standards. It builds **seven core abilities**—calculation, logic, spatial sense, measurement and data, creativity, expression, and critical thinking—to form a solid foundation for future STEM success.

The long-term program includes Honors and Challenge tracks tailored to each child's math level. **Both follow the same framework** to strengthen **thinking skills** from PreK–G2. The Challenge track **adds competition training** for a smooth transition to upper-elementary math contests.

PreK: The Pre-K course has no level divisions. Before entering Kindergarten, students take placement assessments; combined with classroom performance and learning goals, this determines the most suitable course level.

Honors: Focuses on developing seven core abilities, fostering interest and confidence in math, and building potential for advanced study and future competitions.

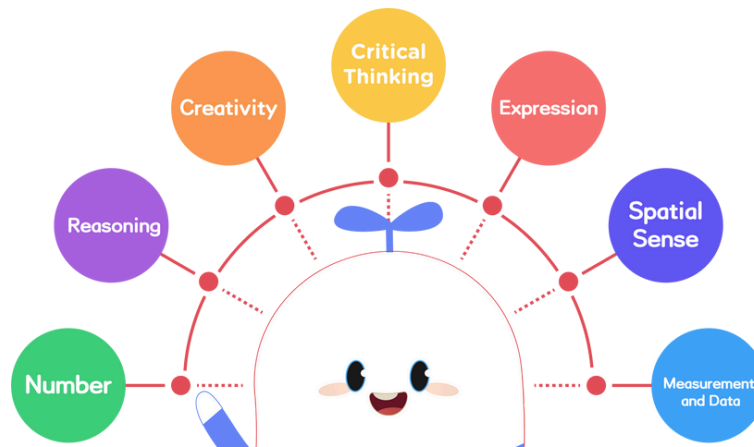
Challenge: Builds on the Honors curriculum with competition-focused enrichment aligned to the Math Kangaroo, encouraging children to explore and achieve in math contests from an early age.

幼小阶段学习规划				
班级	Pre-K	K	G1	G2
Honors 超前一年，稳固全A，直通顶班	Pre-K Think Ability	K Honors	G1 Honors	G2 Honors
Challenge 竞赛启蒙，加速两年，AP满贯		K Challenge	G1 Challenge	G2 Challenge
Competition 竞赛奠基，名师指导，晋级奥数				G2 Pre-ACE

What Are the Seven Core Abilities?

3 Comprehensive Output Skills – Apply What You Learn

4 Core Math Skills – Spark Interest in Learning



- Ages **3–8** are the key period for developing children' s thinking skills
- Through **scenario-based learning**, we protect curiosity
- Enhance the **joy of exploration**, and help children build and strengthen their **thinking frameworks**
- Cultivating **active thinking** and lifelong learning ability

Creativity	Complex Problem-Solving Ability Accelerated School Progress Competition Enrichment		
Critical Thinking			
Expression			
Reasoning	Word Problems		
Spatial Sense	Elementary Geometry	Introductory Algebra	Advanced Functions
Measurement and Data	Statistics and Graphs	Plane Geometry	High School Geometry
Number	Calculation and Smart Strategies	Science Courses	AP Science
PreK-G2	G3-G5	G6-G8	G9-G12

Course Highlights

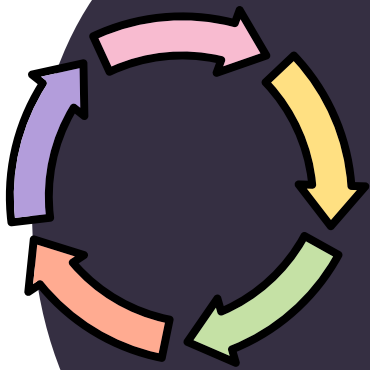
Clear Structure, Worry-Free for Parents

Personalized Learning Plans with Full Progress Tracking

- **Before Enrollment:** Teachers create **personalized study plans** based on each student's goals and ability
- **During Learning:** Teachers give **regular feedback and targeted advice**, helping parents track progress
- **Mid-Term & Final Evaluations:** **Parent meetings** and updated study plans ensure steady improvement



Weekly Learning Cycle to Ensure Steady Progress



- **Pre-Class Preparation:** **15-minute preview** to review key concepts and prepare for new lessons
- **Homework:** **Assigned after each class**, with teacher feedback shared with parents
- **Office Hour:** **Free live sessions** to review and clarify difficult problems
- **Homework Review Videos:** Each homework question includes a **detailed video explanation** for easy review

Year-Round Learning Support

- **Year-round Parent App service** providing fast responses
- Through the Parent App, parents get **direct contact with teachers** for efficient communication and real-time progress updates
- Instant online homework help for **timely learning support**

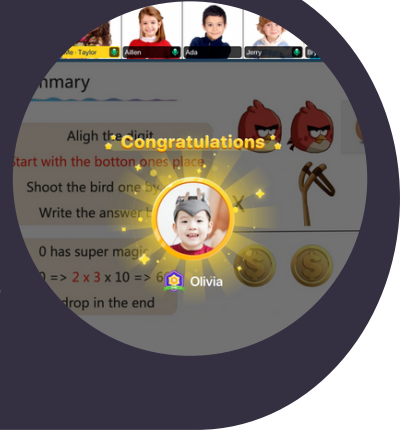


Course Highlights

Happy Learning, Better Results

Thoughtfully Crafted Lessons Inspire a Love for Math

- **Interactive games and scenario-based teaching** make math fun and engaging
- **Gold coin reward system** lets students exchange coins for prizes, motivating them to complete learning tasks actively



Self-Developed Learning App Enhances Every Online Class

- **Think Academy learning app** enhances in-class interaction with hand-raising, polls, and group activities —**keeping students engaged every three minutes**
- Teachers **track progress in real time** for an effective learning experience



A Sense of Achievement Builds Intrinsic Motivation

- Students learn efficiently in class and get **full after-class support** with detailed homework videos and free weekly Office Hours.
- Students **gain higher grades, faster progress**. They are naturally motivated to put more effort in STEM learning and become **confident math learners**



Topic 1 Addition and Subtraction Strategy

(Recommended Learning Time: 4 days)

1 Calculate:

(1) $8 - (5 - 2) =$

$8 - (5 - 2) = 8 - 3 = 5$



Calculate the numbers in the parentheses first.

(2) $8 + 6 + 2 =$

Good Friend Pairs:

10

1	+	9
2	+	8
3	+	7
4	+	6
5	+	5

$8 + 6 + 2 = 10 + 6 = 16$



Find the Good Friend Pairs.

(2) $19 + 7 - 9 =$

$31 - 1 = 30$

$12 - 2 = 10$

Fighting Twins: $25 - 5 = 20$

$78 - 8 = 70$

$49 - 9 = 40$

$19 + 7 - 9 = 10 + 7 = 17$



Find the Fighting Twins.

2 Calculate:

(1) $6 + (5 + 2) = \underline{\hspace{2cm}}$

(2) $13 + (3 + 8) = \underline{\hspace{2cm}}$

(3) $17 - (14 - 5) = \underline{\hspace{2cm}}$

(4) $15 - (2 + 4) = \underline{\hspace{2cm}}$

3 Calculate:

(1) $7 + (2 + 6) = \underline{\hspace{2cm}}$

(2) $13 + (2 + 8) = \underline{\hspace{2cm}}$

(3) $22 - (9 - 7) = \underline{\hspace{2cm}}$

(4) $33 - (6 + 6) = \underline{\hspace{2cm}}$

4

Calculate:

(1) $5 + (4 + 3) = \underline{\hspace{2cm}}$

(2) $11 + (7 + 8) = \underline{\hspace{2cm}}$

(3) $19 - (13 - 8) = \underline{\hspace{2cm}}$

(4) $18 - (9 + 8) = \underline{\hspace{2cm}}$

5

Calculate:

(1) $14 + 7 - 4 = \underline{\hspace{2cm}}$

(2) $17 + 2 - 7 + 8 = \underline{\hspace{2cm}}$

(3) $30 - 10 + 4 = \underline{\hspace{2cm}}$

6

Calculate:

(1) $17 + 4 - 7 = \underline{\hspace{2cm}}$

(2) $24 - 4 - 7 + 7 = \underline{\hspace{2cm}}$

(3) $12 - 8 - 2 = \underline{\hspace{2cm}}$

7

Find an easier way to calculate:

(1) $4 - 3 + 6 = \underline{\hspace{2cm}}$

(2) $13 + 2 - 3 = \underline{\hspace{2cm}}$

(3) $24 + 13 - 4 = \underline{\hspace{2cm}}$

(4) $12 + 14 - 4 + 8 = \underline{\hspace{2cm}}$

8 Find an easier way to calculate:

(1) $7 - 2 + 3 = \underline{\hspace{2cm}}$

(2) $12 + 5 - 2 = \underline{\hspace{2cm}}$

(3) $29 + 15 - 9 = \underline{\hspace{2cm}}$

(4) $17 + 12 - 2 + 3 = \underline{\hspace{2cm}}$

9 Find an easier way to calculate:

(1) $14 - 4 + 6 = \underline{\hspace{2cm}}$

(2) $24 + 6 - 7 = \underline{\hspace{2cm}}$

(3) $25 + 13 - 5 = \underline{\hspace{2cm}}$

10 Calculate:

(1) $18 + 6 + 12 = \underline{\hspace{2cm}}$

(2) $27 - 8 - 7 = \underline{\hspace{2cm}}$

(3) $1 + 3 + 5 + 7 + 9 = \underline{\hspace{2cm}}$

11 Find an easier way to calculate:

(1) $9 + 2 + 1 = \underline{\hspace{2cm}}$

(2) $18 + 8 - 8 = \underline{\hspace{2cm}}$

(3) $37 + 28 - 17 = \underline{\hspace{2cm}}$

(4) $29 + 48 - 8 + 1 = \underline{\hspace{2cm}}$

12 Calculate:

(1) $36 - 26 + 19 = \underline{\hspace{2cm}}$

(2) $38 + 17 - 18 = \underline{\hspace{2cm}}$

(3) $45 - 29 - 15 = \underline{\hspace{2cm}}$

13 Calculate:

(1) $19 + 24 + 51 = \underline{\hspace{2cm}}$

(2) $16 + 38 + 42 = \underline{\hspace{2cm}}$

(3) $24 - 19 + 36 = \underline{\hspace{2cm}}$

14 Calculate:

(1) $13 + 15 + 27 =$ _____

(2) $35 + 15 + 28 =$ _____

(3) $29 + 11 - 27 =$ _____

15 Calculate:

(1) $47 - 17 + 25 =$ _____

(2) $39 + 27 - 19 =$ _____

(3) $41 - 15 - 21 =$ _____

16 Calculate:

(1) $45 + 67 + 55 =$ _____

(2) $73 + 29 + 37 =$ _____

17 Calculate:

(1) $37 + 58 + 63 =$ _____

(2) $89 + 27 + 11 =$ _____

18 Calculate:

(1) $57 + 29 - 37 =$ _____

(2) $59 + 37 - 29 =$ _____

19 Calculate:

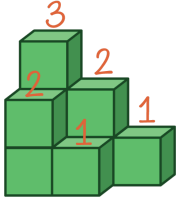
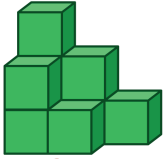
(1) $76 - 28 - 46 =$ _____

(2) $85 - 29 - 35 =$ _____

Topic 2 Counting Solid Shapes

(Recommended Learning Time: 3 days)

- 1 How many cubes are there in the figure below?

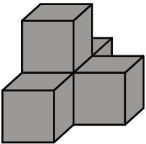


$$3 + 2 + 2 + 1 + 1 = 9$$

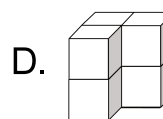
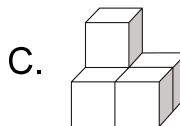
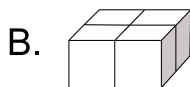
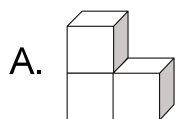


Count by column from left to right, and from front to back.

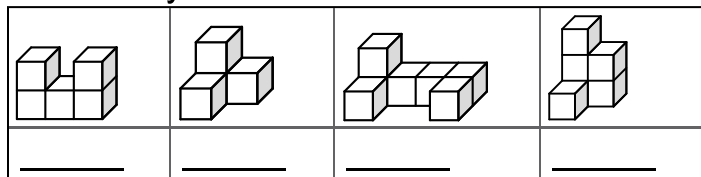
- 2 How many cubes are there in the figure below?



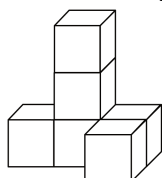
3 Which of the following figures is composed of five cubes?



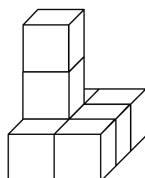
4 How many cubes are there.



5 How many cubes were used to build each of the figures shown below ?

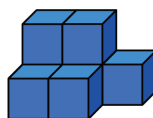
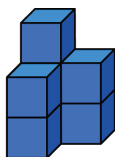
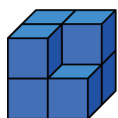


()

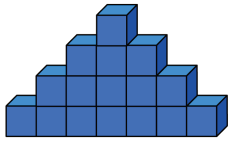


()

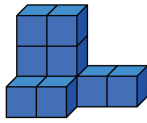
6 Which solid figure has the most number of ?



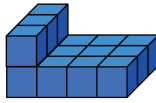
7 Which solid figure has the most number of  ?



(1)

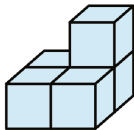


(2)

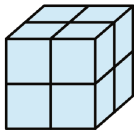


(3)

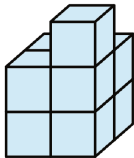
8 How many small cubes are there in each of the following figures?



()

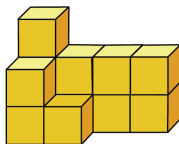
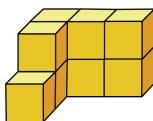
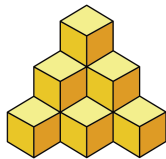
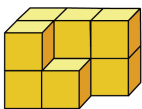


()



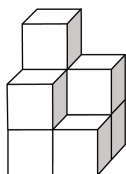
()

9 How many small cubes are there in each of the following figures?

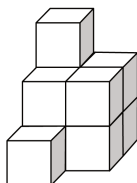


10 How many cubes were used to build each of the figures shown below?

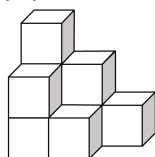
(1) _____ cubes.



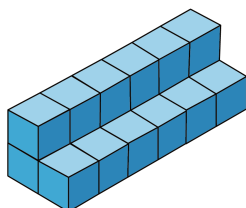
(2) _____ cubes.



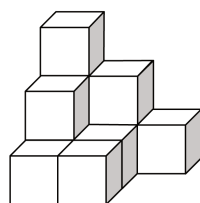
(3) _____ cubes.



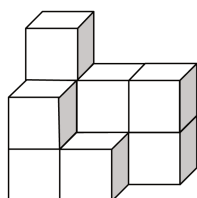
11 How many small cubes are there in the following figure?



12 How many cubes were used to build each of the figures shown below ?

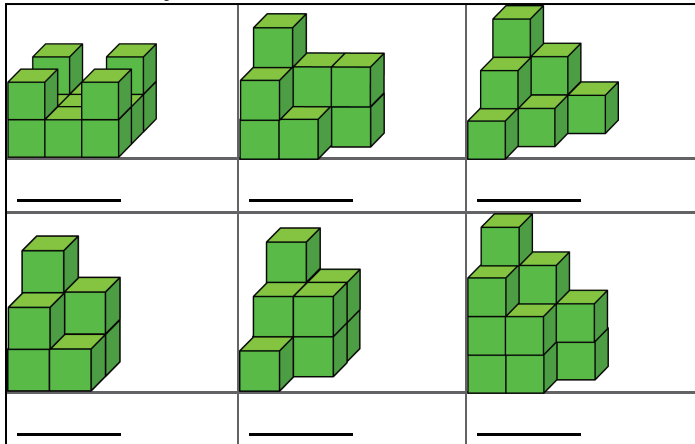


()

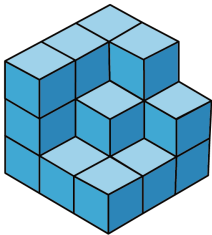


()

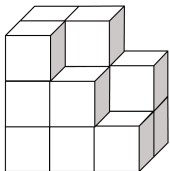
13 How many cubes were used to build each of the figures shown below?



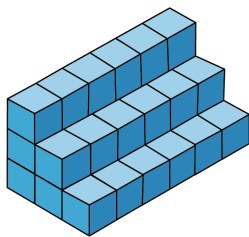
14 How many small cubes are there in the following figure?



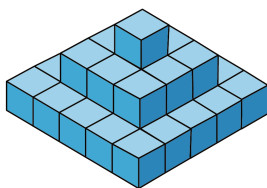
15 There are _____ cubes cannot be seen.



16 How many small cubes are there in the following figure?



17 How many small cubes are there in the following figure?



Topic 3 Column Addition and Column Subtraction

(Recommended Learning Time: 4 days)

1 Add using column addition:

$$54 + 17 = \underline{\hspace{2cm}}$$

	5	4
+	1	7
	7	1



Align the digits, and calculate from right. Regroup when the sum of ones digits is greater than 10.

2 Add using column subtraction:

$$73 - 48 = \underline{\hspace{2cm}}$$

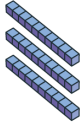
	~~7~~	3
-	4	8
	2	5



Align the digits, and calculate from right. Regroup when the digit on the top is smaller than the digit on the bottom.

3 Add using column addition:

(1) $33 + 4 = \underline{\hspace{2cm}}$

	Tens	Ones
33		
4		

	Tens	Ones
+		

(2) $61 + 30 = \underline{\hspace{2cm}}$

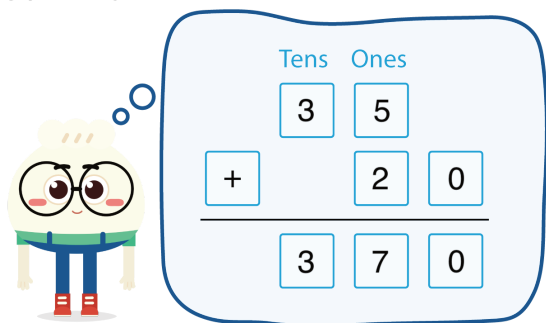
	Tens	Ones
+		

(3) $41 + 27 = \underline{\hspace{2cm}}$

(4) $32 + 51 = \underline{\hspace{2cm}}$

- 4 Luna made a mistake when he did column addition. Where is the mistake? Help him correct it!

$$35 + 20 = ?$$



Correction:

- 5 Add using column addition:

(1) $53 + 40 = \underline{\hspace{2cm}}$

(2) $42 + 53 = \underline{\hspace{2cm}}$

(3) $74 + 13 = \underline{\hspace{2cm}}$

6 Add using column addition:

(1) $23 + 45 = \underline{\hspace{2cm}}$

(2) $14 + 53 = \underline{\hspace{2cm}}$

(3) $74 + 123 = \underline{\hspace{2cm}}$

7 Calculate by using column addition:

(1) $70 + 22 = \underline{\hspace{2cm}} .$

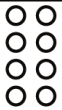
(2) $65 + 34 = \underline{\hspace{2cm}} .$

8 Calculate by using column addition:

(1) $36 + 42 = \underline{\hspace{2cm}}$.

(2) $61 + 18 = \underline{\hspace{2cm}}$.

9 Add using column addition:

Tens	Ones	Tens	Ones
			
			

10 Add using column addition:

(1) $53 + 40 = \underline{\hspace{2cm}}$

(2) $42 + 53 = \underline{\hspace{2cm}}$

(3) $74 + 13 = \underline{\hspace{2cm}}$

11 Calculate:

$$\begin{array}{r} 4 \quad 6 \\ (1) \quad + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 5 \\ (2) \quad + \quad 4 \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 7 \\ (3) \quad + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 6 \\ (4) \quad + \quad 2 \quad 7 \\ \hline \end{array}$$

12 Calculate:

$$\begin{array}{r} 5 \quad 8 \\ (1) \quad + \quad 1 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 7 \\ (2) \quad + \quad 1 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 3 \\ (3) + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 8 \\ (4) + 2 9 \\ \hline \end{array}$$

- 13 Lulu made a mistake when she did column addition. Where is the mistake? Help her correct it!

$$48 + 28 = ?$$

$$\begin{array}{r} 4 8 \\ + 2 8 \\ \hline 6 6 \end{array}$$

Correction:

14 Add using column addition:

(1) $39 + 40 = \underline{\hspace{2cm}}$

(2) $38 + 51 = \underline{\hspace{2cm}}$

(3) $25 + 62 = \underline{\hspace{2cm}}$

15 Add using column addition:

(1) $38 + 46 = \underline{\hspace{2cm}}$

(2) $53 + 28 = \underline{\hspace{2cm}}$

- 16 Nana made a mistake when she did column addition. Where is the mistake? Help her correct it!

$$23 + 44 = ?$$

	Tens	Ones	
	2	3	
+		4	4
	2	7	4

Correction:

- 17 Can you correct Gia's mistakes in her homework?

		1	
		3	9
(1)	+	3	4
		6	3

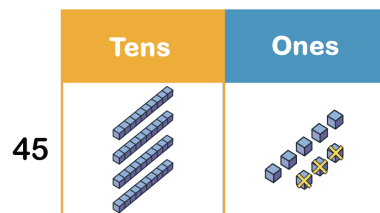
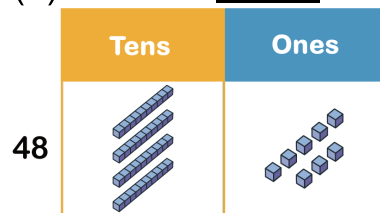
Correction:

		1	
		5	8
(2)	+	2	7
		8	6

Correction:

18 Subtract using column subtraction:

(1) $48 - 3 = \underline{\hspace{2cm}}$



	Tens	Ones
-		

(2) $42 - 20 = \underline{\hspace{2cm}}$

	Tens	Ones
-		

19 Match the mice with the correct cheese!



$$65 - 3 = ?$$



$$88 - 45 = ?$$



$$33 - 13 = ?$$



$$29 - 7 = ?$$



20



22



43



62

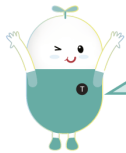
Topic 4 More and Less

(Recommended Learning Time: 3 days)

- 1 Jenny eats 6 pieces of pizza, and she eats 5 fewer pieces than Qiqi. How many pieces of pizza does Qiqi eat?

(fewer) Jenny: 6

(more) Qiqi: $6 + 5 = 11$



Find who eat more first. Use "+" to find the larger number, and use "-" to find the smaller number.

- 2 Write the correct equations for the following figures.
(1) How many cats are there?



_____ = _____

(2) How many flowers does Sherry have?



_____ = _____

3

How many apples do duck and monkey have, respectively?



I have 4 more apples than little rabbit.



Little rabbit has 3 more apples than me.



How many apples does duck have?



$$\square \bigcirc \square = \square$$

How many apples does monkey have?



$$\square \bigcirc \square = \square$$

4 Answer the following questions by the picture below.



(1) There are 7 birds in the tree. There are 4 fewer flying birds than the birds in the tree. How many flying birds are there?

(2) 2 frogs jump into the water. There are 5 more frogs on the rocks than in the water. How many frogs are there on the rocks?

(3) There are 13 dogs in the picture. There are 4 more dogs than frogs. How many frogs are there in the picture?

5 10 kittens are catching mice. There are 3 more sleeping kittens than mice-catching kittens. How many kittens are there in total?

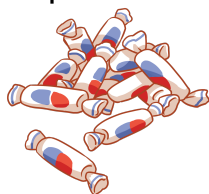


- 6 Eddie has 25 strawberries, and Bob has 8 fewer strawberries than Eddie. How many strawberries does Bob have?



A. 29 B. 17 C. 15 D. 13

- 7 Sophie has 17 pieces of candy, and Jordon has 8 fewer pieces of candy than Sophie. How many pieces of candy does Jordon have?



A. 17 B. 8 C. 7 D. 9

- 8 The rabbit has two piles of carrots. There are 9 carrots in the first pile. The second pile has 8 more carrots than the first pile. How many carrots does the rabbit have in total?



- 9 There are 15 dogs and some bones. If we give each dog a bone, there will be 3 dogs do not have any bone. How many bones are there in total?



- 10 There are 15 students. Teacher Aileen gives each student 1 piece of candy and has 4 pieces of candy left. How many pieces of candy does teacher Aileen have?



- 11 Little bear used to have 37 pieces of honey cakes. Little mouse ate 21 pieces of little bear's cakes. How many fewer pieces of cakes does little bear now have than the cakes eaten by little mouse?



- 12 Sherry used to have 42 lollipops, and gave Olivia 16 lollipops. How many fewer lollipops did Sherry give to Olivia than the lollipops she has now?



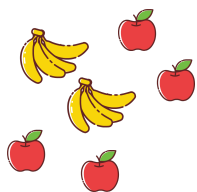
- 13 There were 32 passengers on the bus. At a certain station, 10 passengers got off and 16 passengers got on. How many passengers are there on the bus now?



- 14 Lucas went to the shop. He bought 3 peaches and 7 pears. The number of peaches he bought was 5 less than that of apples. How many fruits did he buy in total?



- 15 The fruit shop had 80 kg of bananas. In the morning, the owner bought 50 kg of apples. In the afternoon, the owner sold 20 kg of fruits. How many kilograms of fruits does the fruit shop have now?



- 16 The first car carries 56 bags of rice. The second car carries 28 more bags than the first car. The third car carries 36 fewer bags than the second car. How many bags of rice does the third car carry?



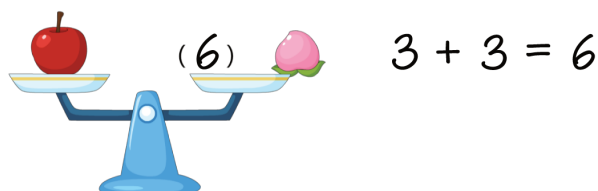
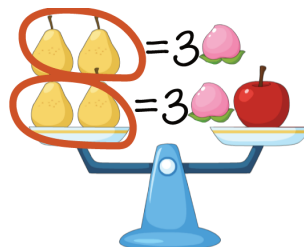
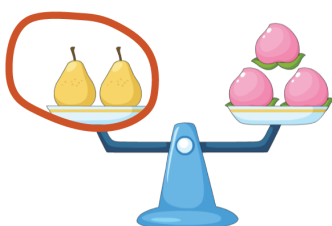
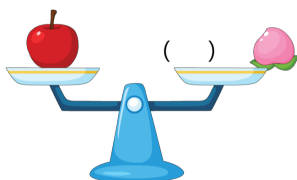
- 17 Sherry bought 10 notebooks. Olivia bought 5 more notebooks than Sherry. Jade bought 10 more notebooks than Olivia. Tina bought 15 more notebooks than Jade. Between Tina and Sherry, who bought more notebooks, and how many more notebooks did she buy?



Topic 5 Equal and Balanced

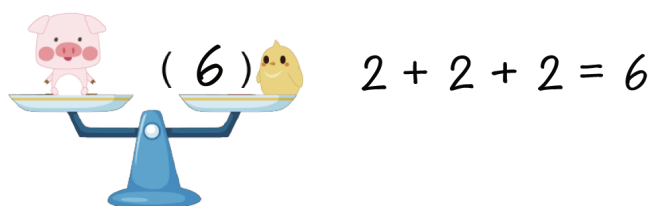
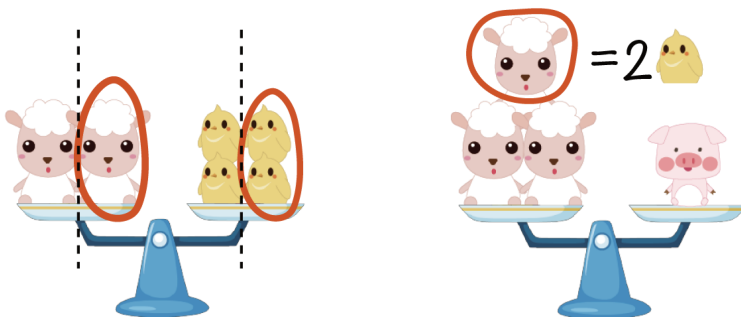
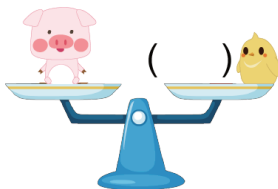
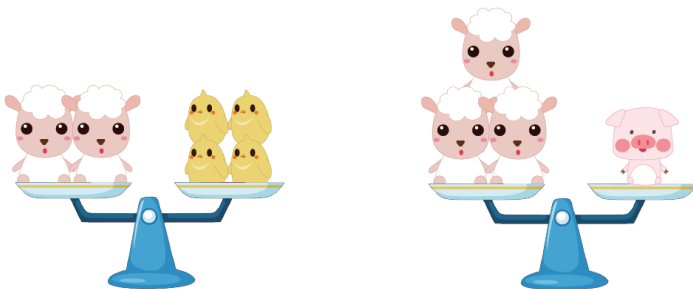
(Recommended Learning Time: 4 days)

- 1 Observe the scales. How many peaches weigh the same as an apple?



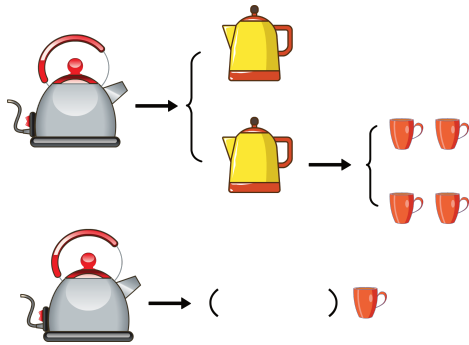
Regard some items together as a pack, and then use the equal packs to make exchange.

2 Observe the scales. _____ chicks weigh the same as a pig.

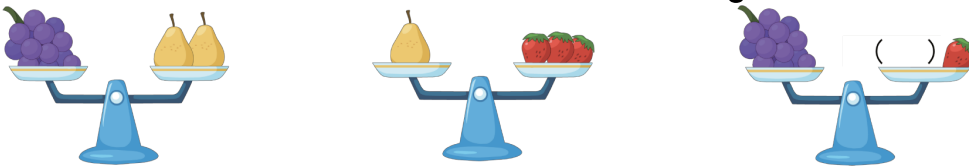


Divide the items on each of two sides of the scale into half.

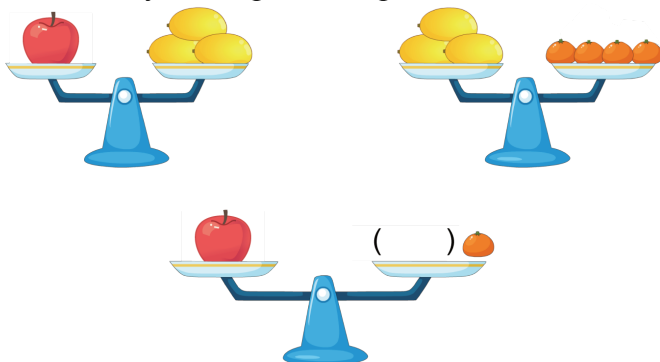
3 Observe the scales. _____ cups weigh the same as a kettle.



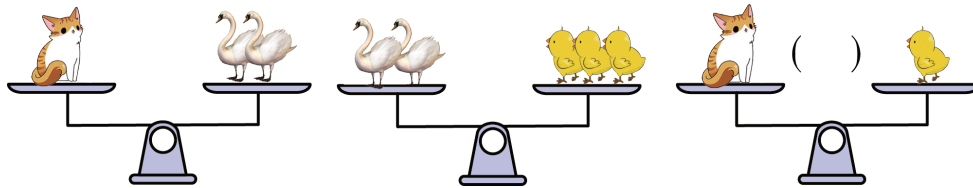
4 Observe the scales. _____ strawberries weigh the same as a bunch of grapes.



5 How many oranges weigh the same as an apple? Fill the number in the blank.



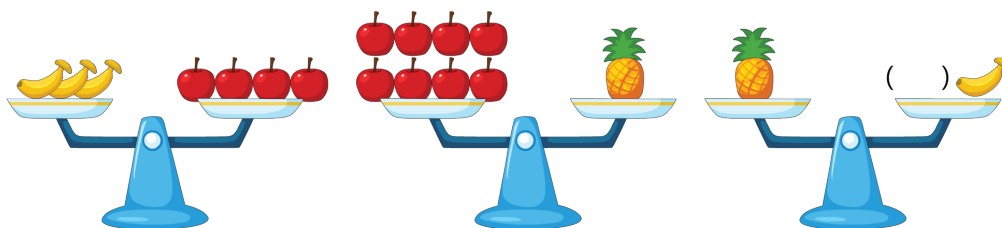
6 Observe the scales. _____ chicks weigh the same as a cat.



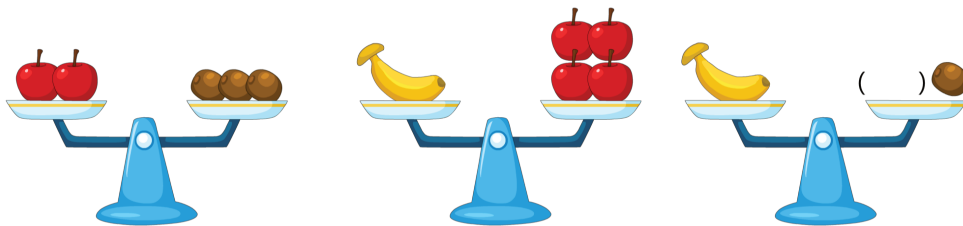
7 Observe the scales. _____ bananas weigh the same as an apple.



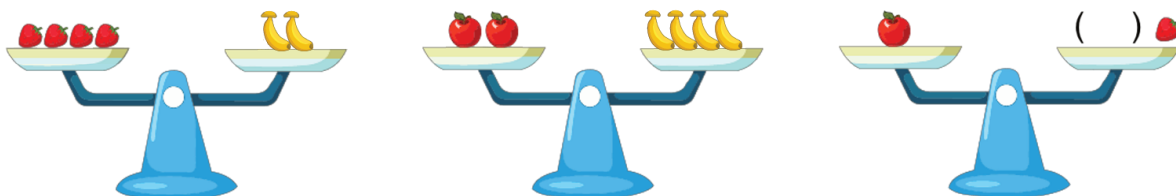
8 How many bananas weigh the same as a pineapple? Fill the number in the blank.



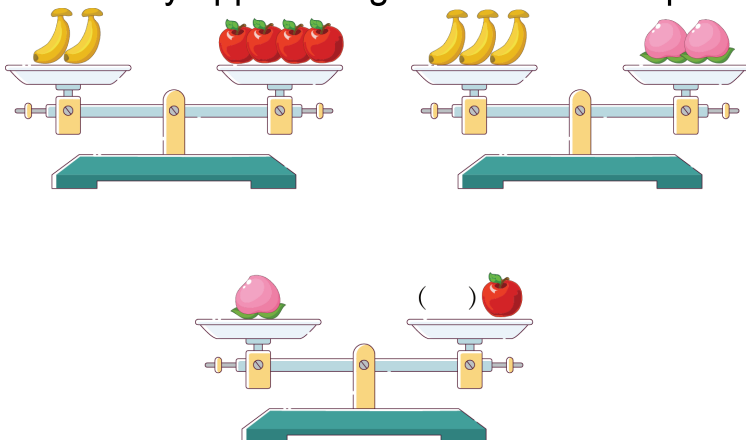
9 How many kiwis weigh the same as a banana? Fill the number in the blank.



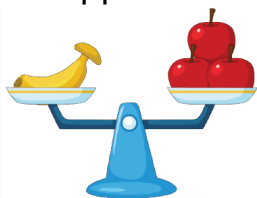
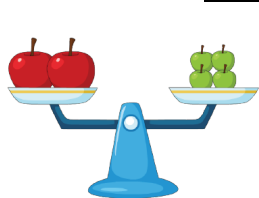
10 How many strawberries weigh the same as an apple? Fill the number in the blank. _____



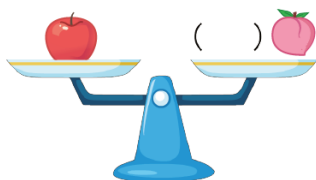
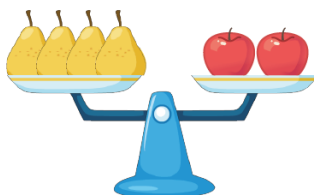
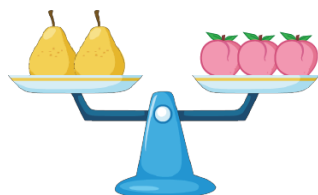
11 How many apples weigh the same as a peach? Fill the number in the blank.



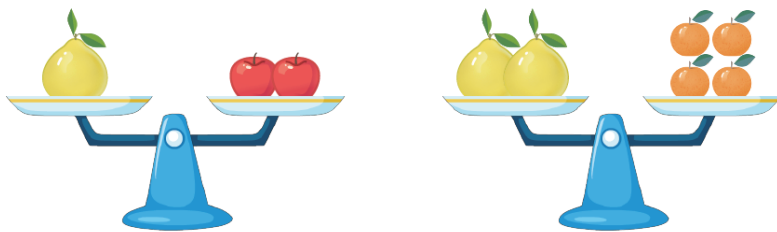
12 1 banana = _____ green apples.



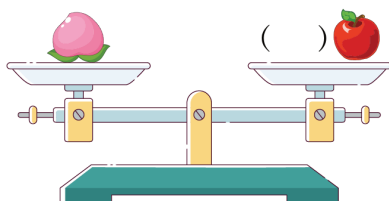
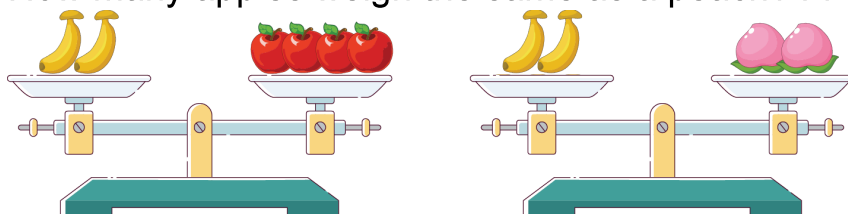
13 Observe the scales. _____ peach(es) weigh the same as an apple.



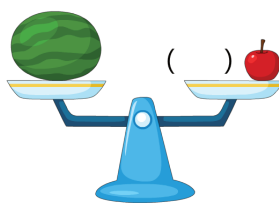
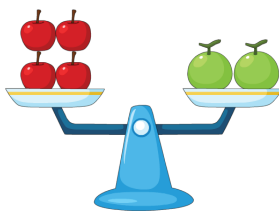
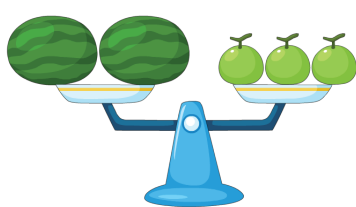
14 Observe the scales. _____ apple(s) weigh the same as an orange.



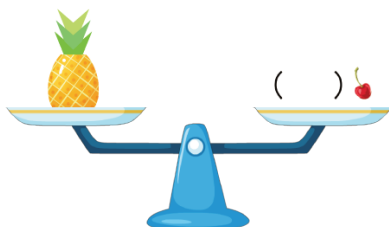
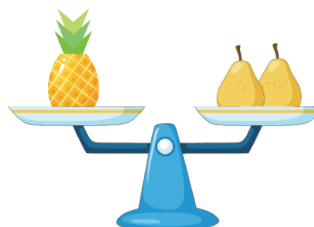
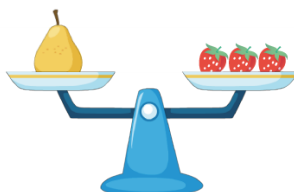
15 How many apples weigh the same as a peach? Fill the number in the blank.



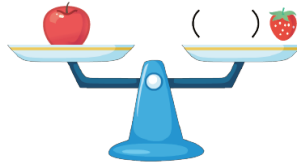
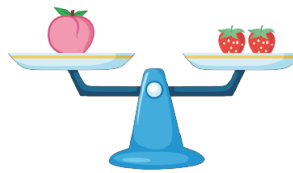
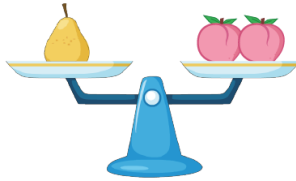
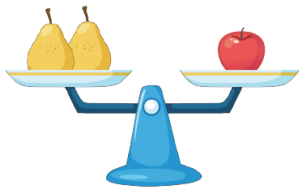
16 1 watermelon = _____ apples.



17 1 pineapple = _____ cherries.



18 Observe the scales. _____ strawberries weigh the same as an apple.



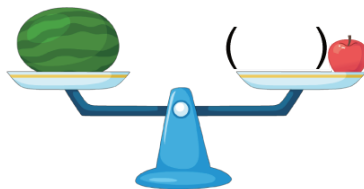
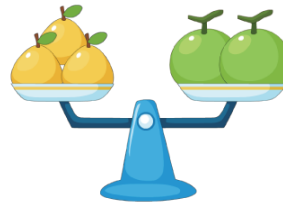
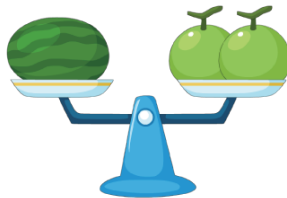
A. 3

B. 5

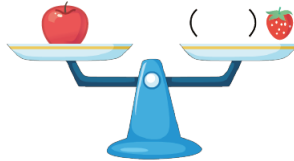
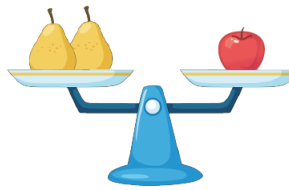
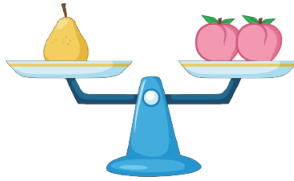
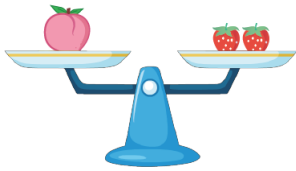
C. 8

D. 9

19 Observe the scales. _____ apples weigh the same as a watermelon.



20 1 apple = _____ strawberries.



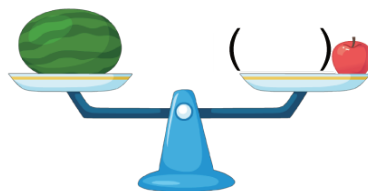
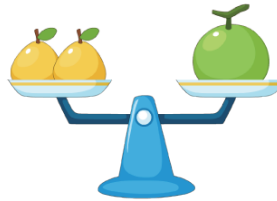
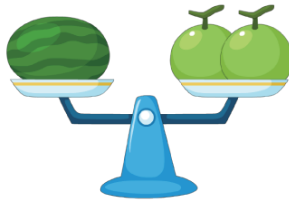
A. 3

B. 5

C. 8

D. 9

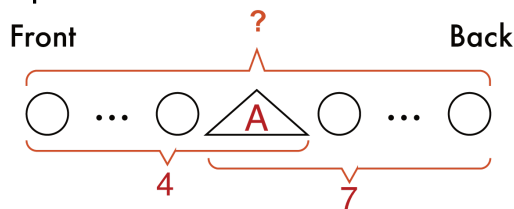
21 Observe the scales. _____ apples weigh the same as a watermelon.



Topic 6 Lining Up

(Recommended Learning Time: 3 days)

- 1 Anna is lining up to get some ice-cream. Counting from the front, she is the 4th in the line. Counting from the back, she is the 7th. How many people are there lining up?



$$4 + 7 - 1 = 10$$



"4th" and "7th" are ordinal numbers. The ordinal number means that the main character (Anna) is included.

- 2 Some students are lining at bookstore. Mike is the second from the back, and the sixth from the front. How many students are there lining up in total?
- A. 8 B. 7 C. 6 D. 5

- 3 Some students are lining up at the cafeteria. Ellie is the third from the back and the seventh from the front. How many students are there lining up in total?
- A. 9 B. 7 C. 8 D. 5

- 4 Julie is on the way back home. As she is waiting in line to get on the bus, there are 7 people in front of her, and 5 people behind her. In total, how many people are there in the line?
A. 8 B. 11 C. 12 D. 13
- 5 Nabi is lining up to get some drink. Counting from the front, she is the 8th in the line. Counting from the back, she is the 4th. How many people are there lining up?
A. 9 B. 10 C. 11 D. 12
- 6 Some kangaroos are lining at bakery. Tom is the third from the back, and the fifth from the front. How many kangaroos are there lining up in total?
A. 8 B. 7 C. 6 D. 5
- 7 Nate is standing in a line to get some food. Counting from the front, he is the 9th person in the line. Counting from the back, he is the 3rd one. How many people are there lining up?
A. 10 B. 11 C. 12 D. 13

8 Bob is on the way to school. As he is waiting in line to get on the bus, there are 4 people in front of him, and 8 people behind him. In total, how many people are there in the line?

A. 8

B. 11

C. 12

D. 13

9 Lucas is on the way to school. As he is waiting in line to get on the bus, there are 4 people in front of him, and 5 people behind him. In total, how many people are there in the line?

10 Amy is shopping in a store. At the cashier, there are 9 people in front of her. Counting from the back, she is the 15th place. How many people are there in total lining up?

11 Nancy is waiting in line to get on the bus, there are 4 people in front of her, and 7 people behind her. In total, how many people are there in the line?

12 Candice is on her way to school. As she is waiting in line to get on the bus, there are 10 people in front of her and 3 people behind her. In total, how many people are there in the line?

A. 12

B. 13

C. 14

D. 15

Topic 1 Addition and Subtraction Strategy

(Recommended Learning Time: 4 Days)

1. 5, 16, 17
2. 13 ; 24 ; 8 ; 9
3. 15 ; 23 ; 20 ; 21
4. 12 ; 26 ; 14 ; 1
5. (1) 17
(2) 20
(3) 24
6. (1) 14
(2) 20
(3) 2
7. (1) 7
(2) 12
(3) 33
(4) 30
8. (1) 8
(2) 15
(3) 35
(4) 30
9. (1) 16
(2) 23
(3) 33
10. (1) 36
(2) 12
(3) 25
11. (1) 12
(2) 18
(3) 48
(4) 70
12. (1) 29
(2) 37
(3) 1

13. (1) 94
(2) 96
(3) 41
14. (1) 55
(2) 78
(3) 13
15. (1) 55
(2) 47
(3) 5
16. (1) 167
(2) 139
17. (1) 158
(2) 127
18. (1) 49
(2) 67
19. (1) 2
(2) 21

Topic 2 Counting Solid Shapes

(Recommended Learning Time: 3 days)

1. 9
2. 5
3. C
4. 5 ; 4 ; 7 ; 6
5. 6 ; 8
6. All of the solid figures have the same number of .
7. (1)
8. 5, 8, 9.
9. 9, 10, 9, 12.
10. (1) 8
(2) 10
(3) 9
11. 18
12. 11 ; 10
13. 13 ; 10 ; 10 ; 8 ; 10 ; 14

14. 19
15. 4
16. 36
17. 35

Topic 3 Column Addition and Column Subtraction

(Recommended Learning Time: 4 Days)

1. 71
2. 25
3. (1) 37
(2) 91
(3) 68
(4) 83
4. It is incorrect. $35 + 20 = 55$
5. (1) 93
(2) 95
(3) 87
6. (1) 68
(2) 67
(3) 197
7. (1) 92
(2) 99
8. (1) 78
(2) 79
9. $46 + 18 = 64$; $25 + 35 = 60$
10. (1) 93
(2) 95
(3) 87

11.
$$\begin{array}{r} 4 \quad 6 \\ + \quad 9 \\ \hline 5 \quad 5 \end{array}$$
 (1)
$$\begin{array}{r} 3 \quad 5 \\ + \quad 4 \quad 5 \\ \hline 8 \quad 0 \end{array}$$
 (2)
$$\begin{array}{r} 5 \quad 7 \\ + \quad 8 \\ \hline 6 \quad 5 \end{array}$$
 (3)
$$\begin{array}{r} 3 \quad 6 \\ + \quad 2 \quad 7 \\ \hline 6 \quad 3 \end{array}$$
 (4)

12.
$$\begin{array}{r} 5 \quad 8 \\ + \quad 1 \quad 6 \\ \hline 7 \quad 4 \end{array}$$
 (1)
$$\begin{array}{r} 2 \quad 7 \\ + \quad 1 \quad 8 \\ \hline 4 \quad 5 \end{array}$$
 (2)
$$\begin{array}{r} 6 \quad 3 \\ + \quad 7 \\ \hline 7 \quad 0 \end{array}$$
 (3)
$$\begin{array}{r} 4 \quad 8 \\ + \quad 2 \quad 9 \\ \hline 7 \quad 7 \end{array}$$
 (4)

13. $48 + 28 = 76$. Lulu forgot to include the regrouping on tens place.

14. (1) 79

(2) 89

(3) 87

15. (1) 84

(2) 81

16. It is incorrect. $23 + 44 = 67$.

17. (1) $39 + 34 = 73$

(2) $58 + 27 = 85$

18. (1) 45

(2) 22

19.



$65 - 3 = ?$



$88 - 45 = ?$



$33 - 13 = ?$



$29 - 7 = ?$



20



22



43



62

Topic 4 More and Less

(Recommended Learning Time: 3 Days)

1. 11
2. (1) $5 + 3 = 8$
(2) $9 - 3 = 6$
3. $5 + 4 = 9$, $5 - 3 = 2$.
4. (1) $7 - 4 = 3$
(2) $2 + 5 = 7$
(3) $13 - 4 = 9$
5. 23
6. B
7. D
8. 26
9. 12
10. 19
11. 5
12. 10
13. 38
14. 18
15. 110
16. 48
17. Tina bought 30 more notebooks than Sherry.

Topic 5 Equal and Balanced

(Recommended Learning Time: 4 Days)

1. 6
2. 6
3. 8
4. 6
5. 4
6. 3
7. 3
8. 6
9. 6
10. 4
11. 3
12. 6
13. 3
14. 1
15. 2
16. 3
17. 12
18. C
19. 6
20. C
21. 6

Topic 6 Lining Up

(Recommended Learning Time: 3 Days)

1. 10
2. B
3. A
4. D
5. C
6. B
7. B
8. D
9. 10
10. 24
11. 12
12. C



 <https://www.thethinkacademy.com/>