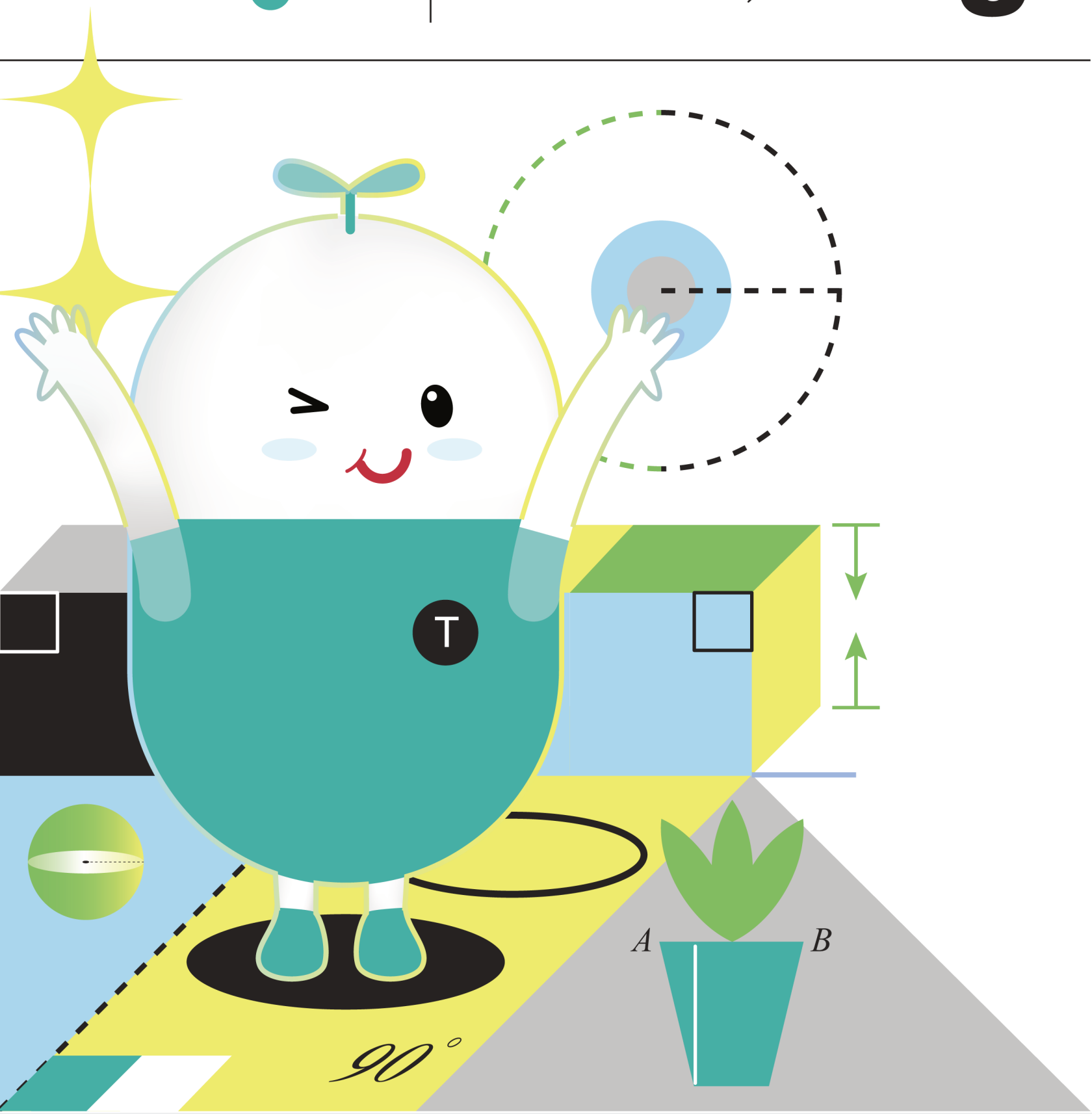


1

Keep → Thinking





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

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学而思美国ONLINE

学前&小低数学课程体系

Think Academy 学前和小学低年级长期班体系专为 **3-8岁** 的小朋友打造，提供专业、系统且全面的全年数学课程。课程依据北美学生的学习特点与需求，通过培养孩子的**七大能力**：运算能力，逻辑推理能力，空间想象能力，测量与数据能力，创造力，表达力，和思辨力，帮助孩子在未来的理科学习中持续领先。

学前长期班根据学生的数学基础划分为Honors和Challenge体系，确保不同水平的学生都能找到适合的学习路径。**两个体系的大纲相同**，保障孩子们在小学低年级的阶段（PreK-G2）获得**足够的思维能力锻炼**，为小学高年级以后加快数学进度打好基础。此外Challenge在Honors班的基础上**增加了少量的竞赛拓展**，帮助孩子们顺利衔接小学高年级的奥数体系。

PreK：PreK的思维能力课不分班，孩子在进入K年级前有分班考试，结合孩子的上课表现与学习目标进入不同难度的课程。

Honors体系：专注培养孩子的七大能力，培养孩子对数学的兴趣与热爱，并具备超前学习和学习竞赛的潜力。

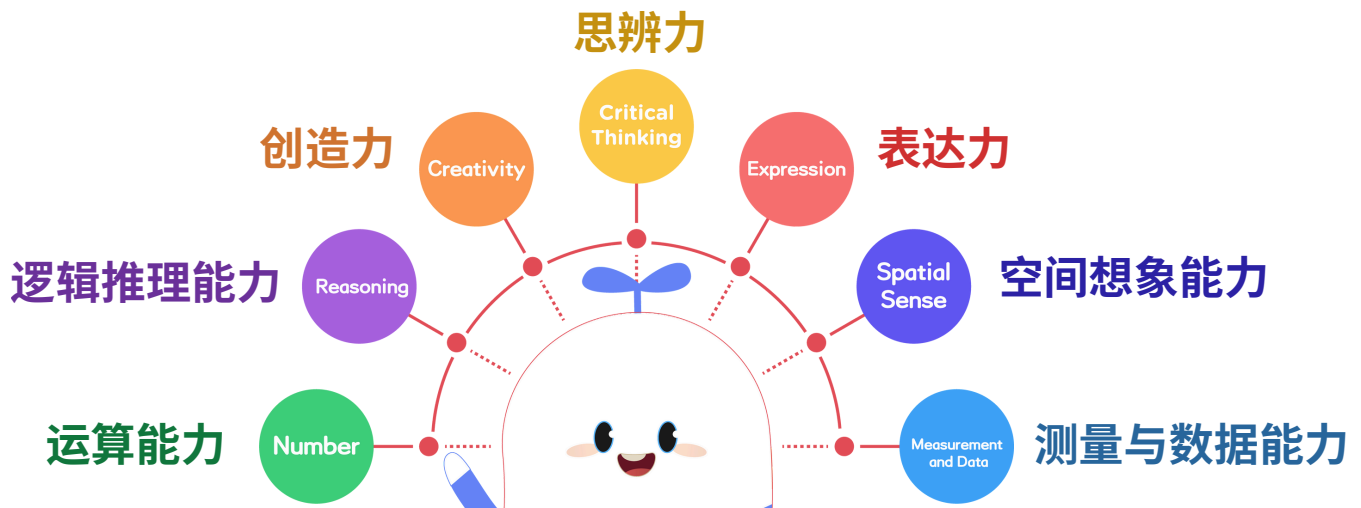
Challenge体系：Challenge课程在Honors课程的基础之上增加了竞赛拓展，对标Math Kangaroo的考纲，帮助孩子从小挑战数学竞赛的奖项。

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

什么是七大能力？

3大综合输出能力——学以致用

4大核心数学能力——激发兴趣



- 3-8岁是儿童思维发展关键期，
- 通过情景学习保护儿童好奇心，
- 在解决问题中提升孩子的探究乐趣、搭建和锻炼孩子的思维框架，
- 培养主动思维，养成儿童面向未来的学习能力。

创造力	复杂解题能力 加快校内进度 学习竞赛拓展		
思辨力			
表达力			
逻辑推理	应用题		
空间想象	小学几何	代数初步	高等函数
数据处理	统计与图表	平面几何	高中几何
运算能力	计算与巧算	科学课程	AP理科
PreK-G2	G3-G5	G6-G8	G9-G12

课程亮点

家长省心，规划清晰

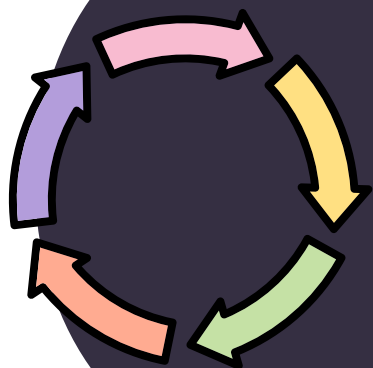
授课老师为孩子定制学习规划， 全程跟踪学习进度

- 报名课程：学习规划老师针对孩子的学习能力与目标，**制定个性化学习方案**。
- 上课期间：每月和家长**反馈孩子的学习情况**，提供有针对性的学习建议，并**监督落实孩子的提升方案**。
- 期中/期末：每学期组织**家长会**，梳理孩子的学习优势和薄弱环节，并制定新学期的学习规划。



每周学习闭环，保障学习效果

- 课前预习：15分钟**课前预习题**，温故而知新
- 课后作业：每节课**配套作业**题目，老师主动和家长反馈学生的作业完成情况。
- Office Hour：**免费作业讲解直播课**，解答孩子课后不明白的题目与知识点。
- 作业解析：每道作业配套**讲解视频**，随时复习错题



全年学习服务支持

- 专业客服，**全年 364 天 Parent APP 在线支持**，快速响应任何问题
- Parents App**直接和授课老师联系**，沟通更高效，随时掌握孩子的学情表现。
- 在线作业答疑，给孩子**最及时的学习帮助**

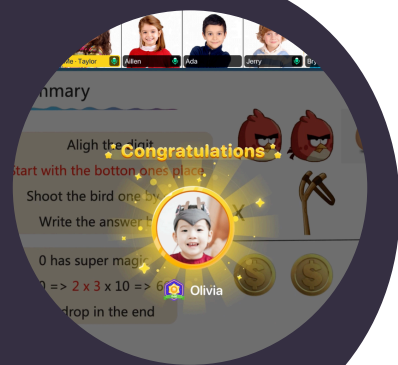


课程亮点

孩子开心，学习更高效

精心打磨课堂设计，让孩子爱上数学

- **互动游戏+情景化教学**，让数学课堂不再枯燥
- **金币激励**，孩子可以用金币兑换实体或虚拟奖品，给孩子更及时的正反馈，让孩子更主动地完成学习任务和目标。



自研上课App，强化线上课程体验

- Think Academy**自主研发的上课App**，给孩子带来更丰富的课上互动，包括举手上台，投票作答，选择填空，集体讨论等互动形式，保障**每3分钟一次互动**的频率，提升孩子的上课投入。
- 老师**实时观察每位孩子**的上课情况，保障孩子的学习体验与效果。



成就感带来底层学习动力

- 不仅课上学习高效，课后也有**完善的辅导答疑服务**。课后作业有视频解析，每周还有免费office hour解答孩子的问题，保障每节课都能学懂。
- 孩子在校内达到**成绩和进度双领先**。更愿意投入时间和精力在理科学习上，增强孩子的学习动力，自推成为**理科学霸**。



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) $45 + 67 + 55 = \underline{\hspace{2cm}}$

(2) $73 + 29 + 37 = \underline{\hspace{2cm}}$

17 Calculate:

(1) $37 + 58 + 63 = \underline{\hspace{2cm}}$

(2) $89 + 27 + 11 = \underline{\hspace{2cm}}$

18 Calculate:

(1) $57 + 29 - 37 = \underline{\hspace{2cm}}$

(2) $59 + 37 - 29 = \underline{\hspace{2cm}}$

19 Calculate:

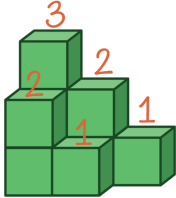
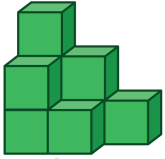
(1) $76 - 28 - 46 = \underline{\hspace{2cm}}$

(2) $85 - 29 - 35 = \underline{\hspace{2cm}}$

Topic 2 Counting Solid Shapes

(Recommended Learning Time: 3 days)

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

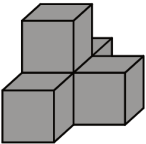


$$3 + 2 + 2 + 1 + 1 = 9$$

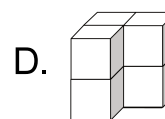
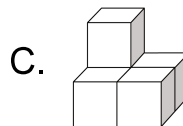
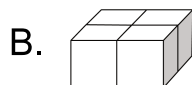
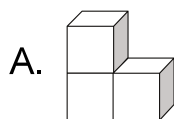


Count by column from left to right, and from front to back.

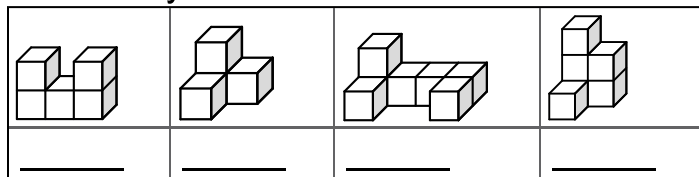
- 2 How many cubes are there in the figure below?



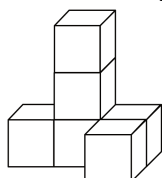
3 Which of the following figures is composed of five cubes?



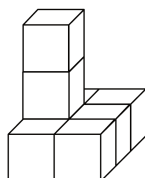
4 How many cubes are there.



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

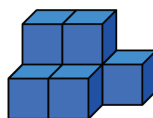
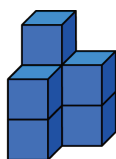
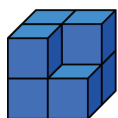


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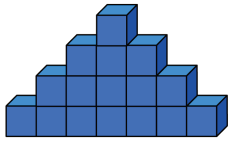


()

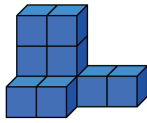
6 Which solid figure has the most number of ?



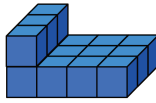
7 Which solid figure has the most number of  ?



(1)

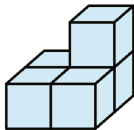


(2)

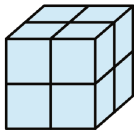


(3)

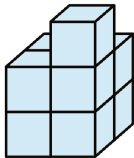
8 How many small cubes are there in each of the following figures?



()

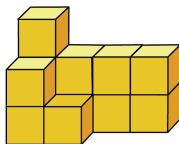
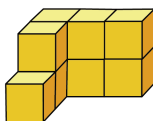
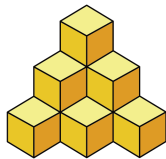
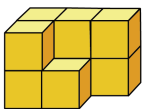


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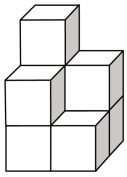
()

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

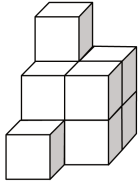


10 How many cubes were used to build each of the figures shown below?

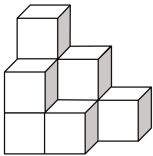
(1) _____ cubes.



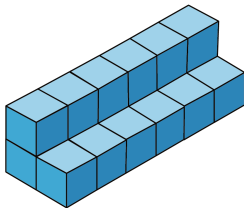
(2) _____ cubes.



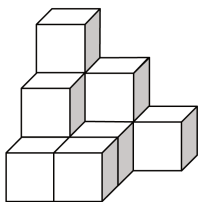
(3) _____ cubes.



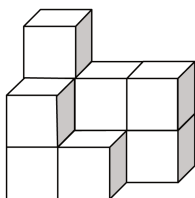
11 How many small cubes are there in the following figure?



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

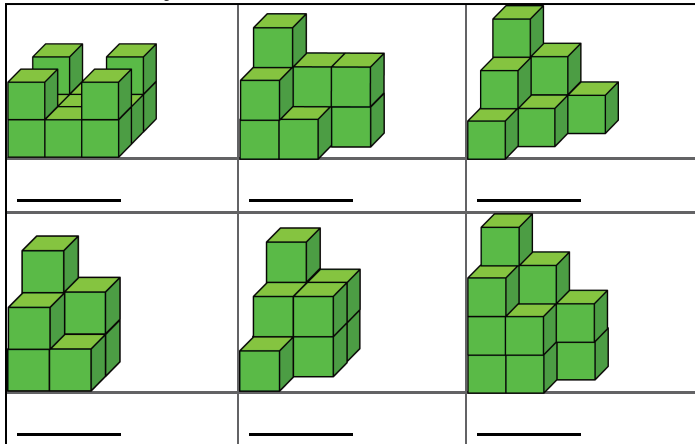


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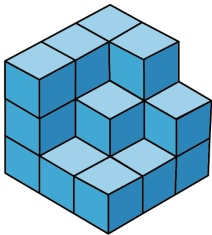


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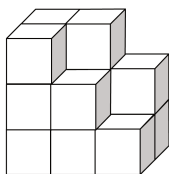
13 How many cubes were used to build each of the figures shown below?



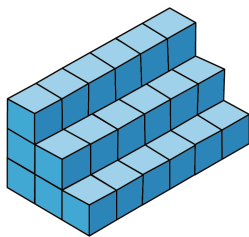
14 How many small cubes are there in the following figure?



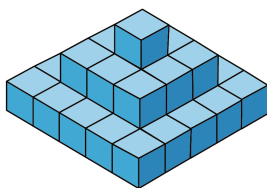
15 There are _____ cubes cannot be seen.



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:

$$54 + 17 = \underline{\quad}$$

	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:

$$73 - 48 = \underline{\quad}$$

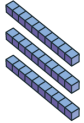
	7	3
-	4	8
	2	5



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!

$$35 + 20 = ?$$



	Tens	Ones
	3	5
+		2 0
	3	7 0

Correction:

- 5 Add using column addition:

(1) $53 + 40 = \underline{\quad}$

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

(3) $74 + 13 = \underline{\quad}$

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

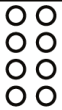
(2) $65 + 34 = \underline{\hspace{2cm}}$.

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

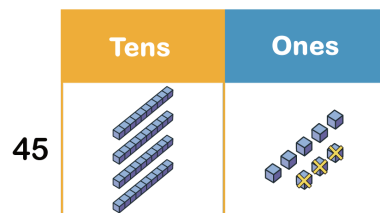
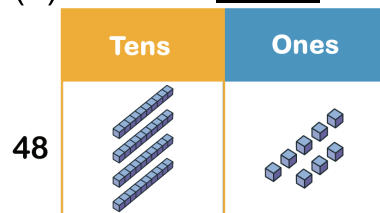
Correction:

		1	
	5		8
(2)	+		
		2	7
		8	6

Correction:

18 Subtract using column subtraction:

(1) $48 - 3 = \underline{\quad}$



	Tens	Ones
-		

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

	Tens	Ones
-		

19 Match the mice with the correct cheese!



$$65 - 3 = ?$$



$$88 - 45 = ?$$



$$33 - 13 = ?$$



$$29 - 7 = ?$$



20



22



43



62

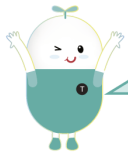
Topic 4 More and Less

(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?

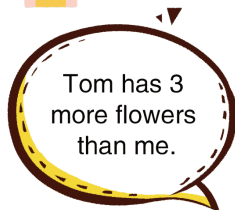


The number of us is 3 more than the number of birds.



_____ = _____

(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?

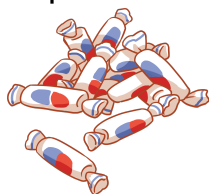


- 6 Eddie has 25 strawberries, and Bob has 8 fewer strawberries than Eddie. How many strawberries does Bob have?



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?



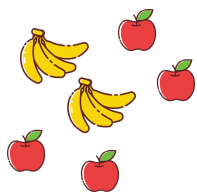
- 13 There were 32 passengers on the bus. At a certain station, 10 passengers got off and 16 passengers got on. How many passengers are there on the bus now?



- 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?



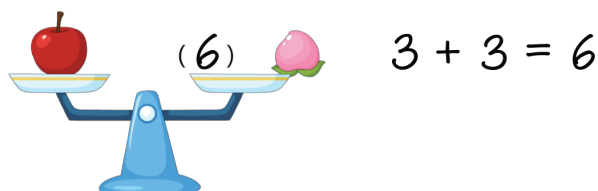
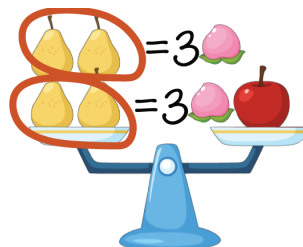
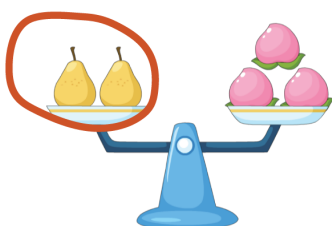
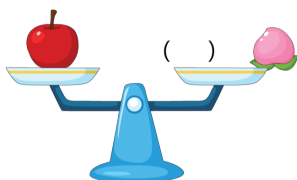
- 17 Sherry bought 10 notebooks. Olivia bought 5 more notebooks than Sherry. Jade bought 10 more notebooks than Olivia. Tina bought 15 more notebooks than Jade. Between Tina and Sherry, who bought more notebooks, and how many more notebooks did she buy?



Topic 5 Equal and Balanced

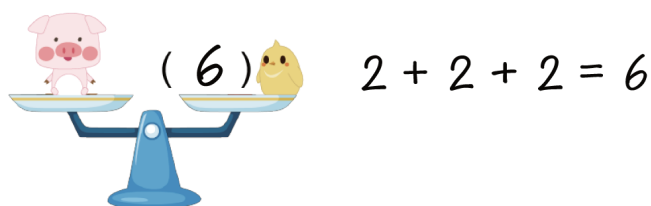
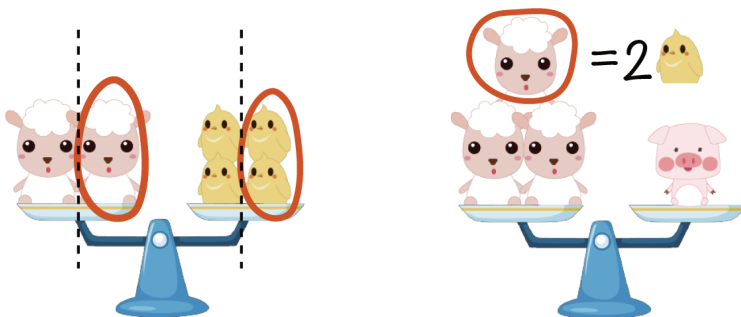
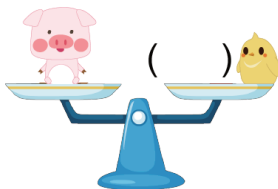
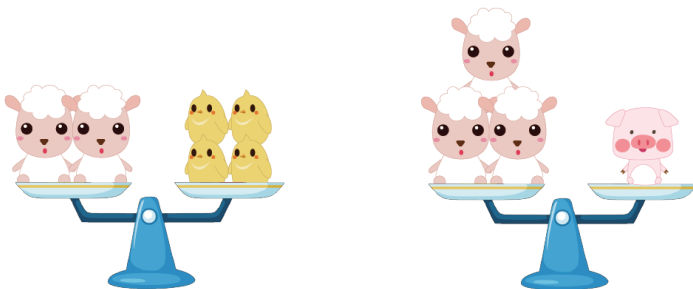
(Recommended Learning Time: 4 days)

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



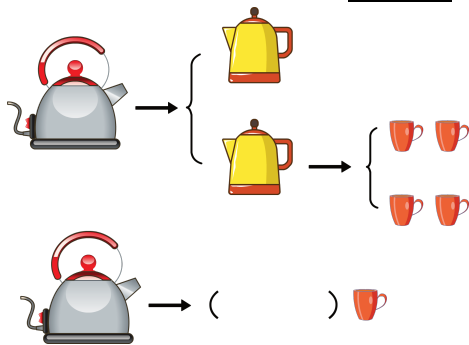
Regard some items together as a pack, and then use the equal packs to make exchange.

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

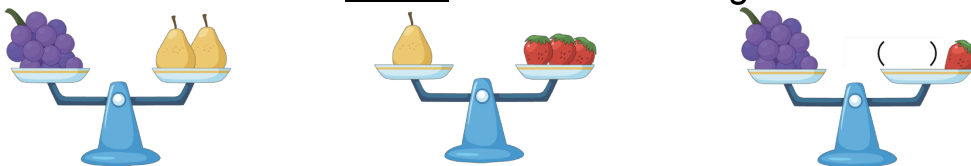


Divide the items on each of two sides of the scale into half.

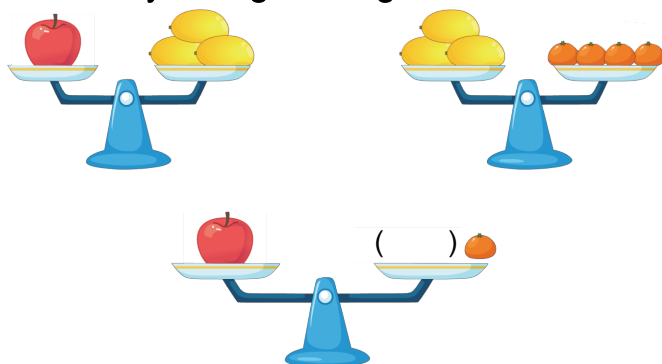
3 Observe the scales. _____ cups weigh the same as a kettle.



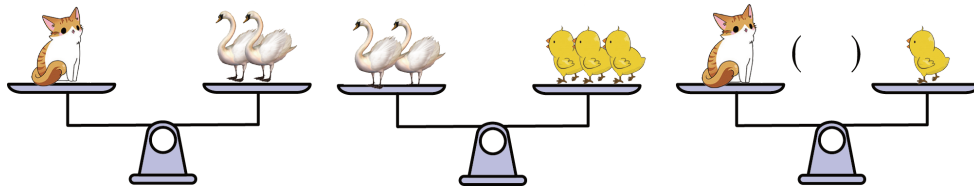
4 Observe the scales. _____ strawberries weigh the same as a bunch of grapes.



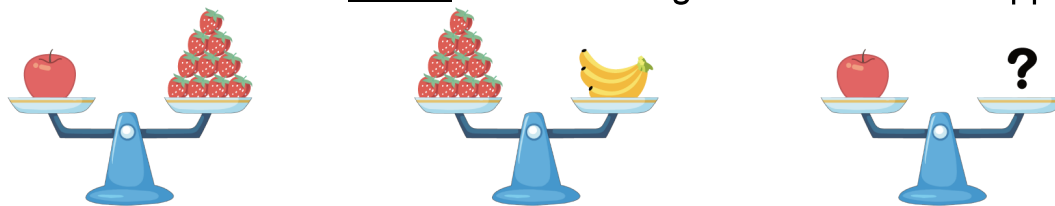
5 How many oranges weigh the same as an apple? Fill the number in the blank.



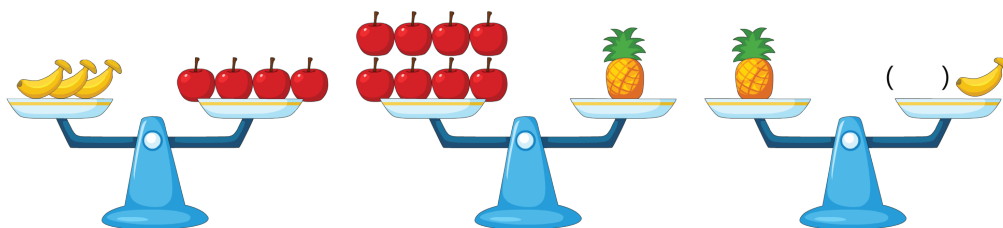
6 Observe the scales. _____ chicks weigh the same as a cat.



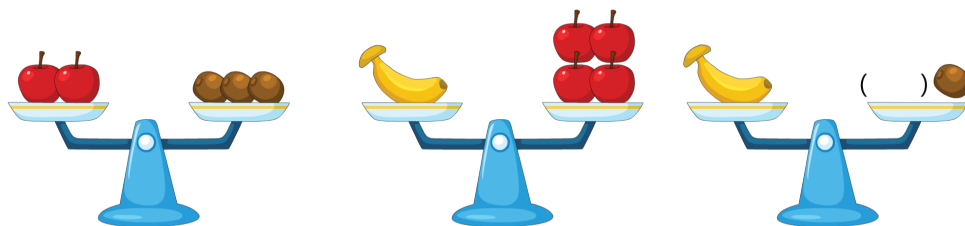
7 Observe the scales. _____ bananas weigh the same as an apple.



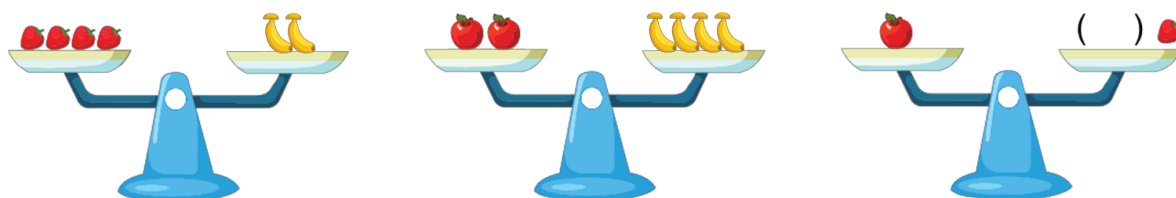
8 How many bananas weigh the same as a pineapple? Fill the number in the blank.



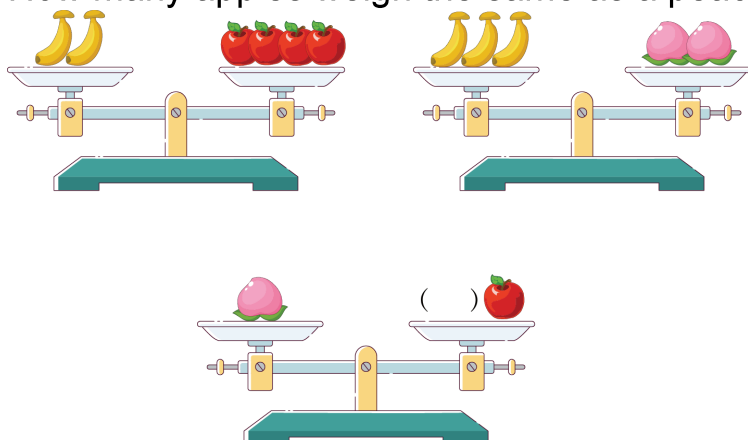
- 9 How many kiwis weigh the same as a banana? Fill the number in the blank.



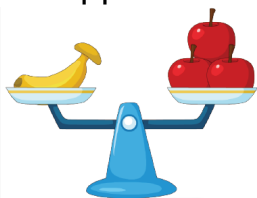
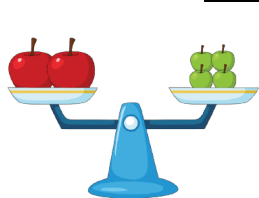
- 10 How many strawberries weigh the same as an apple? Fill the number in the blank. _____



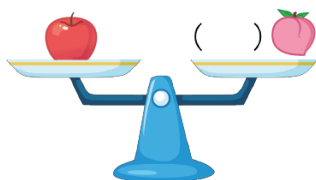
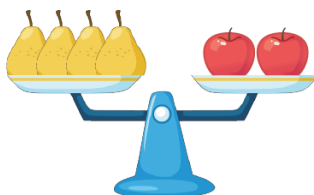
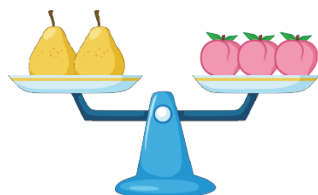
- 11 How many apples weigh the same as a peach? Fill the number in the blank.



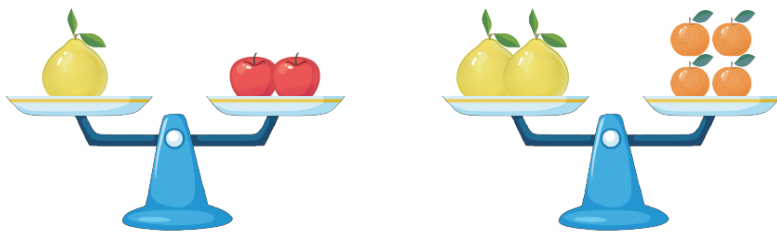
12 1 banana = _____ green apples.



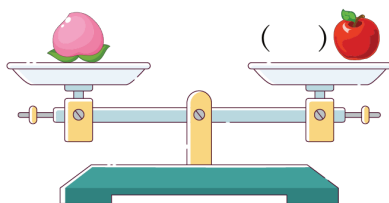
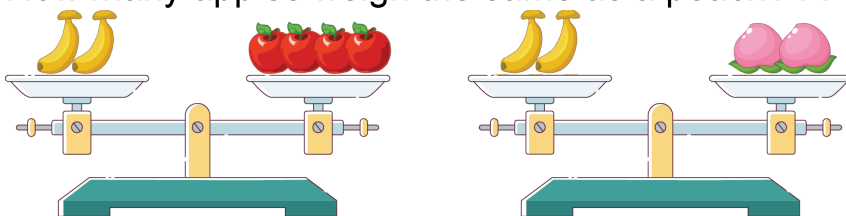
13 Observe the scales. _____ peach(es) weigh the same as an apple.



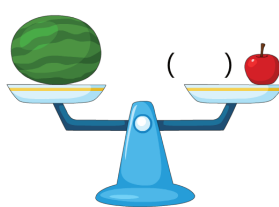
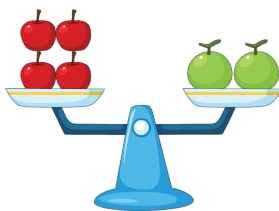
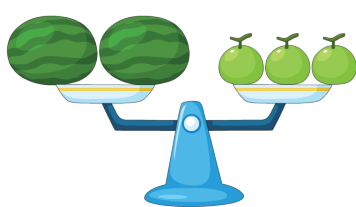
14 Observe the scales. _____ apple(s) weigh the same as an orange.



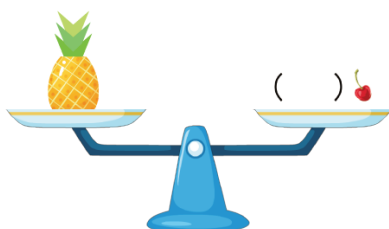
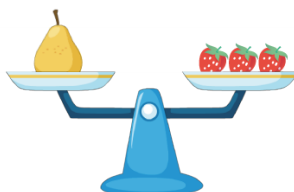
15 How many apples weigh the same as a peach? Fill the number in the blank.



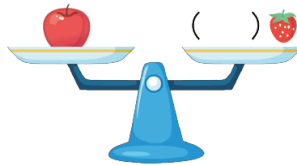
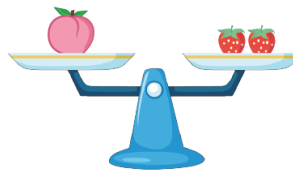
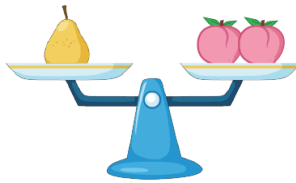
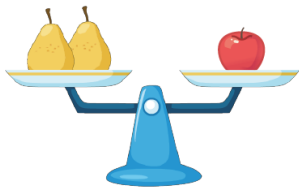
16 1 watermelon = _____ apples.



17 1 pineapple = _____ cherries.



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



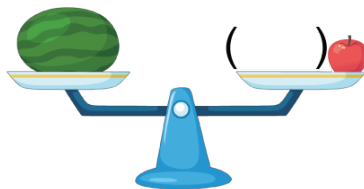
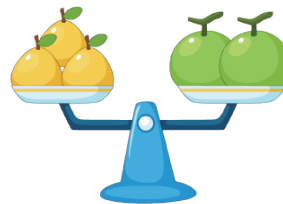
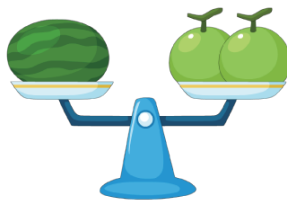
A. 3

B. 5

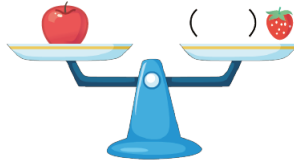
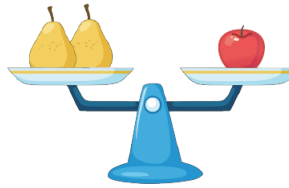
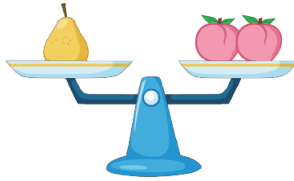
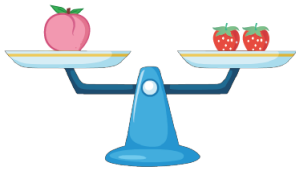
C. 8

D. 9

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



20 1 apple = _____ strawberries.



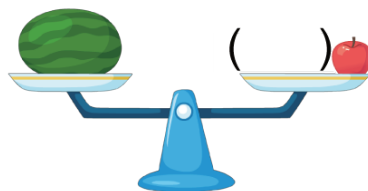
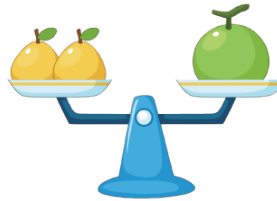
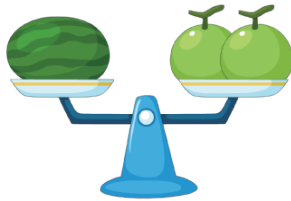
A. 3

B. 5

C. 8

D. 9

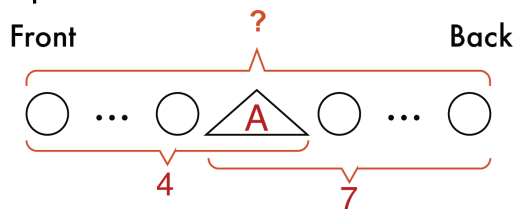
21 Observe the scales. _____ apples weigh the same as a watermelon.



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



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