

# Practice and Learn

数 学 **f**Mathematics

英国小学生课堂练习册

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# 美国小学生课堂练习册 Practice and Learn

# **Mathematics**

数学(下)



(基国家长协会认证印鉴)



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## 编者按语

这套丛书是根据美国教师创新教材公司出版的《Practice and Learn》(学前班及 1-6 年级选编的。 原版书是经美国家长协会(The National Parenting Center)认证的现行课堂练习册。这套丛书全面反映了美国小学的现行教学内容和教学要求,同时也为我们展现了美国小学生生动活泼的学习场景。我们从中不仅可以了解美国小学生每天在学些什么功课,做些什么样的作业,写些什么样的作文,开展些什么样的科技活动和文体活动,以及学生们应知应会的知识内容,而且还可以从中学习和掌握各科的英语专业术语,学会用地道的英语来表述所学过的知识,掌握日常生活,学习活动的英语表达方法。鉴于我国学生目前主要是靠课本学习英语,很少联系生活和学习实践,很少同其他学科相联系的现状,我们觉得,这套书的出版必将会开阔学生的眼界,丰富学生的学习内容,提高学生学英语的兴趣,促进学生英语水平的大幅度提高。

原版书是按年级分册的,不过各册也有所侧重,现改为按学科分册编排,主要是出于对两门主要学科,即语言(英语)和数学的考虑。就英语而言,它不是我们的母语,而是外语。我国的小学生在人学前一段不具备英语的语言背景,因此对应于各年级的原版书显得太深。故在选编时删去了一些难度较大和文化背景较浓的部分。就数学而言,在四则运算方面大体与我们相同,将原书内容全部收入显得有些重复和多余,因此在选编时删去了大量的计算习题。除上述两点以外,本书原汁原味能收入了原质书的全部内容。

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本书透用于我国的中小学生,尤其是双语学校的学生。对于初中生来说,虽然有些内容特别是数学,显得浅一些,但可以充分利用本书来学习英语知识,丰富英语问汇,提高英语水平。特别是那些打算到英语国家上高中、上大学的学生,学习这套丛书能把国内的学习和国外的学习很好地衔接起来,提前了解和熟悉一下国外的学习生活,无证是大有被益的。

这种寓学习于娱乐中的模式正是我国教育体制中所欠缺的。我们的口号是: "英语是玩出来的,而不是学出来的。"

> 美国教育大揭客——美国学生作业全真选编 英语就得天天练——与美国孩子同步学英语

### **CONTENTS**

#### 目 录

1. Decimals(小数)	L
2. Factor (分解因子)	8
3. Fractions (分數)	)
4. Geometry (几何)	1
(1)Shapes (图形) 21	1
(2) Geometric Terms(几何术语)	5
5. Charts and Graphs (图表)	,
6. Logic (逻辑)	7
7. Probability and Combinations (概率与组合)	i
8. Math Terminology (数学术语) 74	+
9. Final Review (总复习) 78	3
O. Answer Keys (答案)	1

# **Estimating Decimals**

#### 小数的计算

Estimate the sum or difference using the adjusted front-end estimation. Then calculate the actual sum or difference.

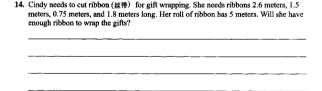
1.	2.7 + 6.93	estimate	2,	4.75 -1.76	estimate	3.	9.57 +0.44	estimate
4.	0.58 - 0.435	estimate	5.	6.77 +2.8	estimate	6.	15.3 - 7.5	estimate
7.	19.2 +36.5	estimate	8.	4.2 -0.723	estimate	9.	27.3 -22.9	estimate

Estimate to compare the sum or difference. Use > for greater than and < for lesser than.

Tell whether the estimate is an overestimate (估计过高) or underestimate (估计不足).

12. 
$$7.3 + 9.6 \approx 20$$

On Your Own!



## Adding and Subtracting Decimals

#### 小数加减法

#### Place the decimal point in the sum.

#### Find the sum.

#### Place the decimal point in the difference.

#### Find the difference.

# Problem Solving: Adding and Subtracting Decimals

The monthly rainfall (降雨量) during the spring was 3.4 inches, 8.6 inches, and 10.2 inches

2. Sheila is redecorating (重新装修) the guest room. She needs 8.25 yards (码) for the curtains and 16.25 yards for the bedspread and to recover the chair. How many yards must be bought to

 The tennis (网球) player served (发球) the tennis ball at a top speed (最快速度) of 111.35 miles per hour. His opponent (对手) serves at a top speed of 106.85 miles per hour. What is the difference

over three months. What was the total rainfall?

between the two speeds?

How much more does she need?

assure Sheila that she will have enough material? (188=0 9144\*)

解应用题:小数加减法

Deacon and Gary had lunch together at a restaurant(版馆). Deacon's entree(主葉) cost \$13.75, while Gary's entree was \$12.55. Both men had dessert (總点) for \$1.95 each. How much was the total bill?
Mr. James has 3 deposits (存款) of \$1,242.30, \$653.21, and \$125.89 to make in his checking account(支票账户). How much is his total deposit?
Mr.Lee has a balance(余額) of \$2,563.37 in his checking account. He needs to write two checks (支票): one for \$833.25 and the other for \$475.66. How much will be left in his checking account.
Stacey scored (得分) a 5.75 in the technical merit (技术分) category in the ice skating championsh (滑冰隽标賽). In the artistic interpretation (艺术来夏) category, she scored a 5.9. Meredith outscored (超出) Stacey by 0.32. What was Meredith's overall score?
When John went shopping, he bought sneakers (高动能) for \$65.75, a pair of shorts (短轉) for \$18.50, and a T-shirt for \$12.95. How much money did he have left for lunch if he started out with (动身的带了)\$100.00?

# **Multiplying Decimals**

#### 小数乘法

Place the decimal point in the product by estimating first.

Estimate the product. Then calculate the exact product.

Calculate the product. Round money problems (钱数题) to the nearest cent (分).

# Estimation in Division 除法估算

#### Estimate to find the best quotient (最近似的商). Circle the answer.

1. 6)487 a. 60 b. 70 c. 80 d. 50 **2.** 5 14,482 a. 300 b. 30 c. 2.500 d. 3.000 3.  $4.627 \div 23$ a. 100 b. 2,000 c. 200 d. 3,000 4. 8 688 b. 10 a. 100 c. 80 d. 800

#### Write the best estimated quotient.

**5.** 7)65

**6.** 6 358

7. 5 3889

#### Divide to find the quotient.

**8.** 4 )316

9. 6/2,586

**10.** 7 5,103

11. 9 73,463

12. 8 46,065

**13.** 3 / 14,053

14. 16,084÷4=

15. 37.398÷7=

**16.** 5 26,009

# **Division With Decimals**

#### 小数除法

Find the quotient.

1. 
$$6.6 \div 3.3 =$$
 2.  $8.8 \div 11 =$ 

Divide. Then round the quotient to the place value shown.

6

## **Division Practice**

#### 除法练习

#### Estimate the quotient.

**1.** 41 248

**2.** 32 155

**3.** 17 3,605

- 4. 15.689÷31 =
- 5. 1,856 ÷ 29 =
- **6.** 57,352 ÷ 82 =

#### Divide to find the quotient.

**7.** 75 66,389

- 8. 66 /135,472
- 9. 84 589

**10.** 7 \( \) 8,400

- **11.** 34 \( \sum\_{5,900} \)
- **12.** 33 / 2,860

**13.** 5 ∫ 18

- **14.** 6 25.62
- **15.** 28 / 165.088

- **16.** 6.540 ÷ 30 =
- 17.  $15.15 \div 25 =$
- 18.  $32.550 \div 70 =$

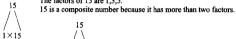
# **Factors**

- Factors are numbers that can be equally divided with no remainder (余数).
- A prime number (质数) has itself and one as a factor.
- A composite number (合数) has more than two factors.

Example:

Find (隶) the factors of 15.





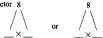
Directions: Factor (对 ...... 分解因子) each number and then identify it as being a prime or a composite number.

1. Factor 6

×_	or	×_

The factors of 6 are \_\_\_ 6 is a (prime, composite) number.

2. Factor 8



The factors of 8 are \_\_\_\_\_ 8 is a (prime, composite) number.

3. Factor 7



- The factors of 7 are 7 is a (prime, composite) number.

4. Fac

tor 18 / or	×
-------------	---

The factors of 18 are \_\_\_\_\_ 18 is a (prime, composite) number.



# **Factors**

因 子

Factors can be written in exponent form (指数形式).

Example: Find the factors of 20 and write them in exponent form.

The factors of 20 are							
2×2×5=							
2 <sup>2</sup> × 5 =							
ber and then write the factors in exponent form.							
7. 75							
8. 12							
9. 36							
公因子) is the largest factor that a set of numbers has							
Example: Find the GCF of 6 and 12.  A. Find the factors of both numbers.  6 = 1, 2, 3  12 = 1, 2, 3, 4, 6  B. Find the common factors.  2 and 3 are factors of 6 and 12.  C. The GCF of 6 and 12 is 3 (excluding 6 itself).							
f numbers.							
11. 10							
30							
13. 12							
15. 18							
20							

# **Fraction Quilts**

#### 分数花格被子

Color to show the correct fraction, 涂上颜色, 求出正确的分数。

1.



2.



1 whole (整个)

Color 2 halves (半个) = 1 whole

3.



4



halves = 1 whole \_\_\_

fourths( $\frac{1}{4}$ ) =  $\frac{1}{2}$ 

5.



\_\_\_\_ fourths = 1/2

\_\_\_\_ fourths = 1 whole

6.



\_\_\_\_ fourths = 1/2

\_\_\_\_fourths = 1 whole

7.



\_\_\_\_ fourths =  $\frac{1}{2}$ 

\_\_\_\_ fourths = 1 whole

Fractions

#### Parts of a Whole

#### 整体的几部分

What part of each shape is shaded? Draw a line to the correct fractional part. Hint: The top number of a fraction stands for the number parts that are colored. The bottom number of a fraction stands for the total number of parts, colored and not colored.

每个图的什么部分涂了阴影?画线连接到正确的分数部分。提示:分数的上面一个数表示总个数量的部分涂了颜色。分数的下面一个数表示总的部分数量,包括涂色的和没涂色的。

1. 2. 3. 4. 5. 6.

1/2
<u>2</u> 5
<u>3</u> 5
<u>2</u> 3
1/3
1 4

# **Coloring Fractions**

#### 给分数涂色

Color the part or parts of each shape or set of shapes to match the fractional number. 给每个图形或每组图形的一部分或几部分上色、使其与分数值相匹配。

1.



-



3

2.



.



<u>1</u>

3.



.

7.



\_3

4.



2\_



5

12