

< 2. Numbers up to ten >

□ 10までの数の読み方・書き方

1. How many are there?

(1)



(2)



< 3. Where is it? >

□ 10までの数についての順序数

1. Fill all the circles up to the third from the right.



2. Fill in the circle fourth from the left.



< 4. What and what? >

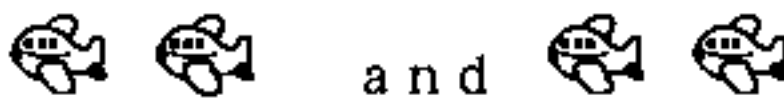
□ 10までの数の構成 (合成分解)

1. What and what?

(1) What and what makes four?



and



and

(2) What and what makes seven?

①

7	
2	

②

7	
4	

③

7	
6	

< 4. Addition 1 >

□たしざんの意味

Word

- All together
- All together

Word

- Add +
- Addition

1. How many are there in all?

(1) What is three plus two?



(2) First there are four. Add three and...



2. Let's do addition!

(1) $3 + 5 =$

(2) $2 + 7 =$

(3) $8 + 2 =$

< 6. Subtraction 1 >

□ひきざんの意味

Word

- Subtract -
- Subtraction

1. There are six oranges. If you eat two, how many would be left?



oranges

2. How many more dogs are there than cats?



dogs

3. Let's subtract!

(1) $8 - 2 =$

(2) $10 - 6 =$


(3) $8 - 8 =$

< 7. Numbers greater than 10 >

□ 2けたの数の表し方と意味理解

1. Count numbers greater than ten, and write them.

(1)



(2)



□ 2けたの数の大小比較

2. Circle the bigger number.

(1) 16 or 19

(2) 20 or 15

(3) 18 or 12

□ 2けたの数の順序

3. Figure out the pattern and write the number in the box.

(1)

1 6	—	1 7	—	□	—	1 9
-----	---	-----	---	---	---	-----

(2)

1 5	—	□	—	1 3	—	□
-----	---	---	---	-----	---	---

□ 2けたの数の10のまとまりとはんば

4. Fill in the blank.

(1) 20 plus 3 makes

(2) 36 is equal to 30 plus

< 9. Addition and Subtraction - - - 1 >

□ 2 位数 ± 1 位数の
繰り上がりや繰り下
がりのない計算

Word
• Calculation

1. Fill in the blank.

(1) 1 6 + 2 =

(2) 1 3 + 6 =

(3) 1 7 - 4 =

(4) 1 8 - 7 =

(5) 1 5 - 5 =

□ 3 口の数のたしざ
んとひきざんの計算

2. Add and subtract.

(1) 3 + 2 + 4 =

(2) 7 + 3 + 6 =

(3) 1 0 - 3 - 4 =

(4) 1 7 - 7 - 2 =

(5) 9 - 6 + 7 =

(6) 7 + 2 - 4 =

< 1 1. Addition 2 >

□繰り上がりのある
たしざんの計算

1. There are nine cars parked in the parking lot. Three cars came in. How many are there in all ?



Work

Answer _____ cars

2. Add.

(1) 9 + 4 =

(2) 5 + 8 =

< 1 3. Subtraction 2 >

□繰り下がりのある
ひきざん

1. There are 12 birds in the park. Nine flew away. How many birds are left in the park?



Work

Answer _____ birds

2. Subtract.

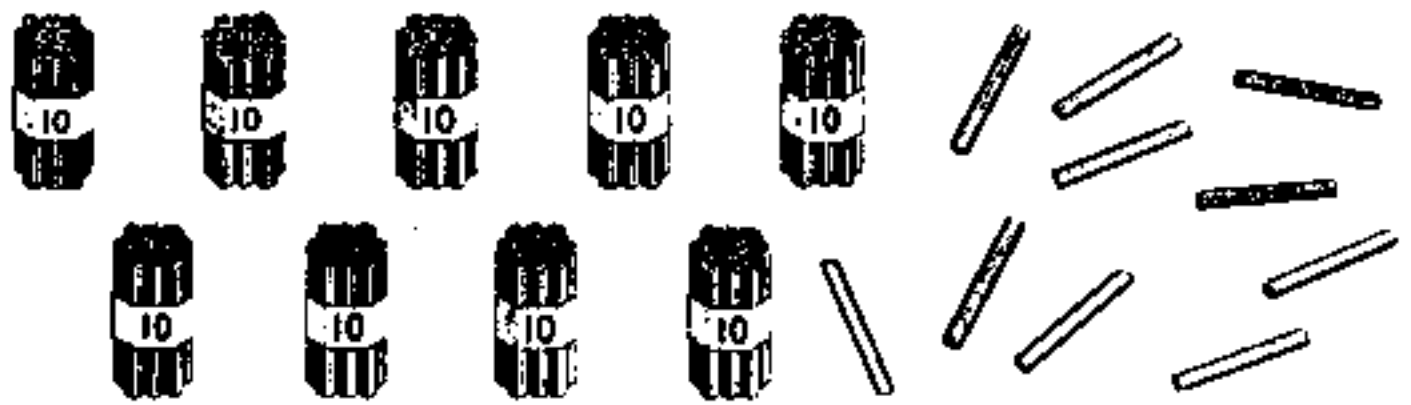
(1) 11 - 9 =

(2) 14 - 7 =

< 15. Large numbers >

□ 100までの数の
読み方・書き方

1. How many pencils are there in all?



2. What's the number? Write the answer.

(1) A number made adding of 7 tens.

(2) A number made up by adding 9 tens and 7 ones.

(3) 86 is made up by adding 10

times, and 1

times.

(4) 100 is

more than 99.

< 2. Addition... 1 >

□ (2位数)+(1, 2位数)で繰り上がりのある筆算の仕方

Word
• Written calculation

1. Do the written calculation.

(1) $29 + 15 =$

$$\begin{array}{r} 29 \\ + 15 \\ \hline \end{array}$$

(2) $32 + 28 =$

$$\begin{array}{r} 32 \\ + 28 \\ \hline \end{array}$$

< 3. Subtraction ... 1 >

□ (2位数)-(1, 2位数)で繰り下がりのある筆算の仕方

1. Do the written calculation.

(1) $35 - 17 =$

$$\begin{array}{r} 35 \\ - 17 \\ \hline \end{array}$$

(2) $40 - 14 =$

$$\begin{array}{r} 40 \\ - 14 \\ \hline \end{array}$$

(3) $53 - 46 =$

$$\begin{array}{r} 53 \\ - 46 \\ \hline \end{array}$$

(4) $34 - 8 =$

$$\begin{array}{r} 34 \\ - 8 \\ \hline \end{array}$$

□ 加法と減法の相互関係

Word
• Check

2. There are 31 strawberries. You ate 23. How many are left? Check your work.

Work

Check

Answer

< 4. Numbers up to 1 0 0 0 >

□ 3位数の十進位取り記数法での表し方

Word
• Hundreds

1. How many are there in all?

(1) Write the total number of the postcards.



(2) How many straws are there in all? Write in number form.



□ 1000までの数の構成と相対的な大きさ

Word
• Thousands

2. Fill in the blank.

(1) 260 is made up of tens.

(2) 260 is made up of ones.

(3) 1000 is made up of hundreds.

□ 不等号の使い方

3. What fits in the blank? (>, <, or =)

(1) 489 498

(2) 450 550 - 150

□ 10や100を単位とする加法、減法

4. What is the answer?

(1) 70 + 80 =

(2) 120 - 70 =

(3) 200 + 500 =

(4) 1000 - 800 =

< 6. Addition... 2 >

□ (2, 3位数) +

(2, 3位数)で繰り上がりのある筆算

1. Do the written calculation in vertical form.

(1) $83 + 52 =$

$$\begin{array}{r} 83 \\ + 52 \\ \hline \end{array}$$

(2) $73 + 59 =$

$$\begin{array}{r} 73 \\ + 59 \\ \hline \end{array}$$

(3) $67 + 36 =$

$$\begin{array}{r} 67 \\ + 36 \\ \hline \end{array}$$

(4) $278 + 583 =$

$$\begin{array}{r} 278 \\ + 583 \\ \hline \end{array}$$

< 7. Subtraction ... 2 >

□ (3位数) - (2,

3位数)で繰り下がりのある筆算

1. Do the written calculation in vertical form.

(1) $135 - 86 =$

$$\begin{array}{r} 135 \\ - 86 \\ \hline \end{array}$$

(2) $113 - 47 =$

$$\begin{array}{r} 113 \\ - 47 \\ \hline \end{array}$$

(3) $936 - 798 =$

$$\begin{array}{r} 936 \\ - 798 \\ \hline \end{array}$$

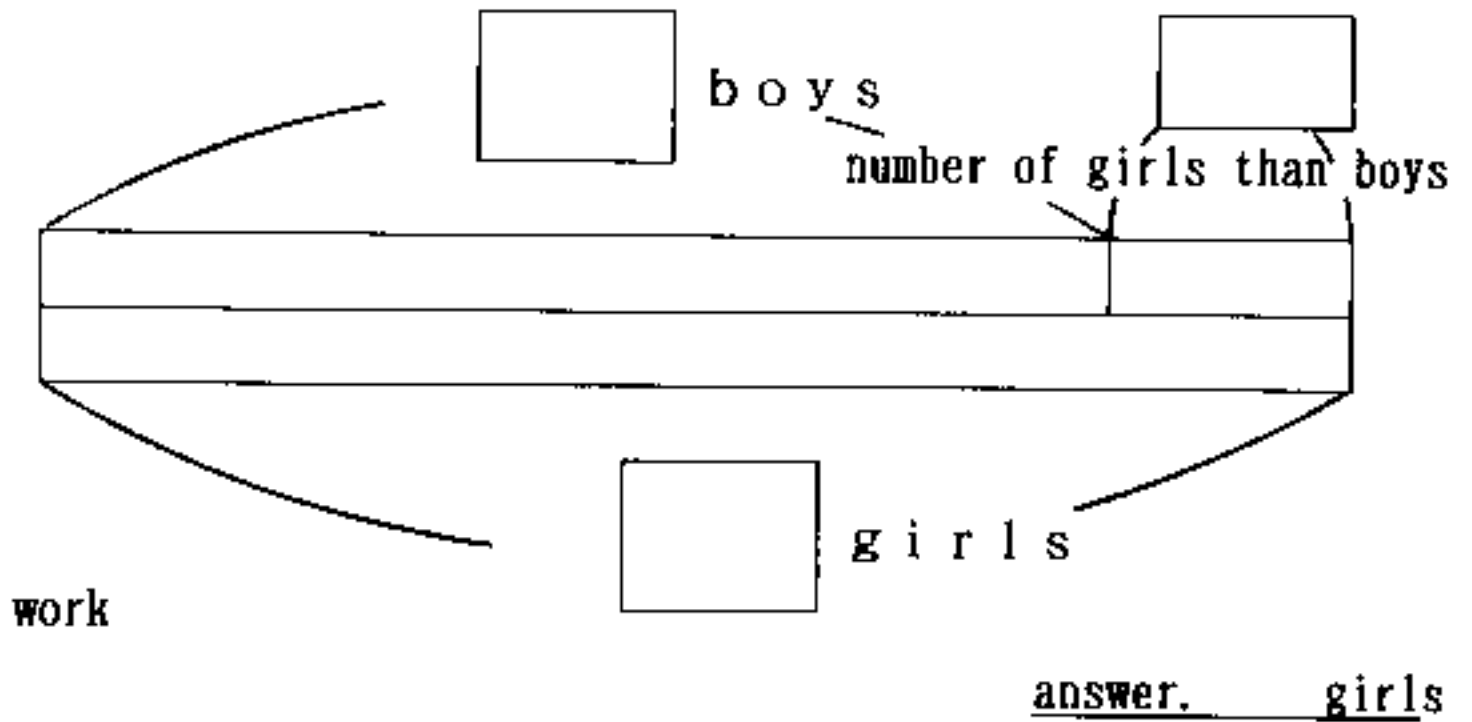
(4) $206 - 37 =$

$$\begin{array}{r} 206 \\ - 37 \\ \hline \end{array}$$

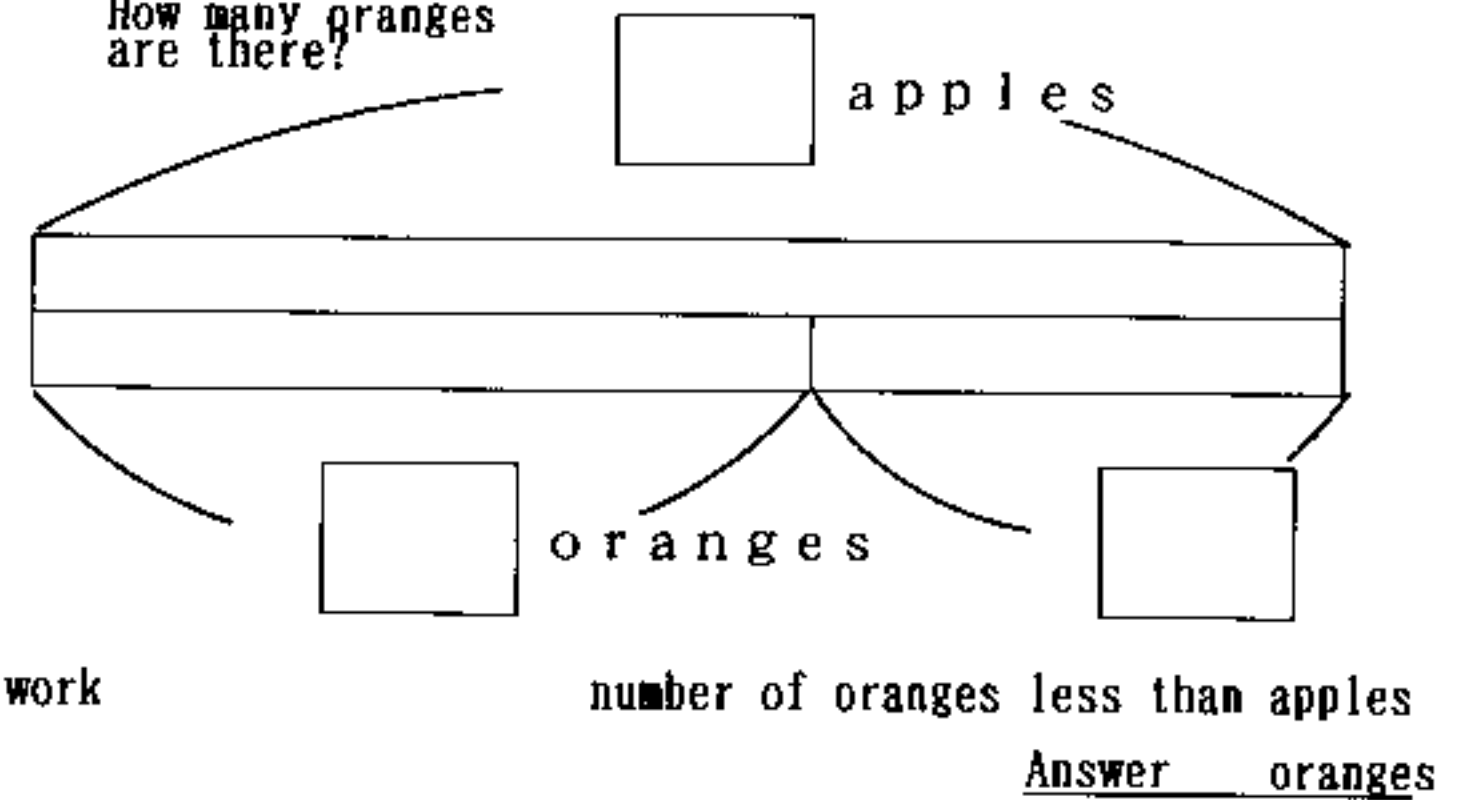
< 10. Addition and Subtraction... 1 >

□求大、求小の問題
解決

1. Class 1 has 14 boys. There are 4 more girls than boys.
How many girls are there in the class?
Fill in the blanks, Show your work, and write your answer.



2. There are apples and oranges. There are 28 apples. The
number of oranges is 13 less than the number of the apples.
How many oranges
are there?



< 12. 13. 14. かけ算... 1・2・3 >

□乗法の意味と式表
示

Word
• × Multiply
• Multipli- cation
• Multiplicand
• Multiplier

1. How many people are there total? Write an equation
and solve.



Work

Answer

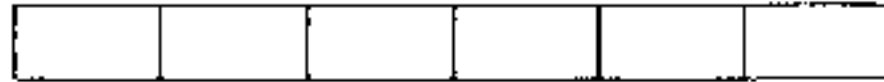
□倍概念の基礎

Word
• Times

2. How many times longer is the bottom tape compared to the top tape? How long is the bottom tape?



教科書 下 P. 15



The bottom tape is times the top tape which is cm long.

× = then the bottom tape is cm.

□かけ算九九の適用

3. Flowers are put into groups of two, and passed out to 7 people. How many flowers are needed?

Work

Answer flowers

4. There are 7 cars. If 4 people ride on each car, how many people can fit in all? Write an equation, and solve.

Work

Answer people

5. Write a problem that would be appropriate for each equation.

(1) 7×8

(2) 6×5

6. Construction paper is passed out to seven people. Each person receives 9 pieces. How many pieces of construction paper are needed?

Work

Answer pieces

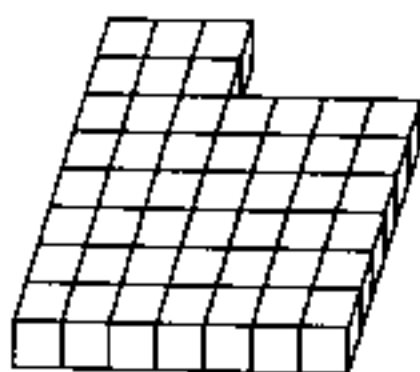
7. There are 4 bags of candy, and each of them contains 8 pieces. How much candy is needed to fill all of the bags?

Work

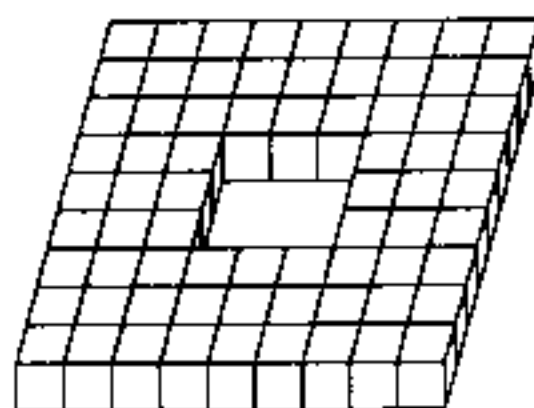
Answer pieces

8. How many squares and circles are there? Solve by grouping.

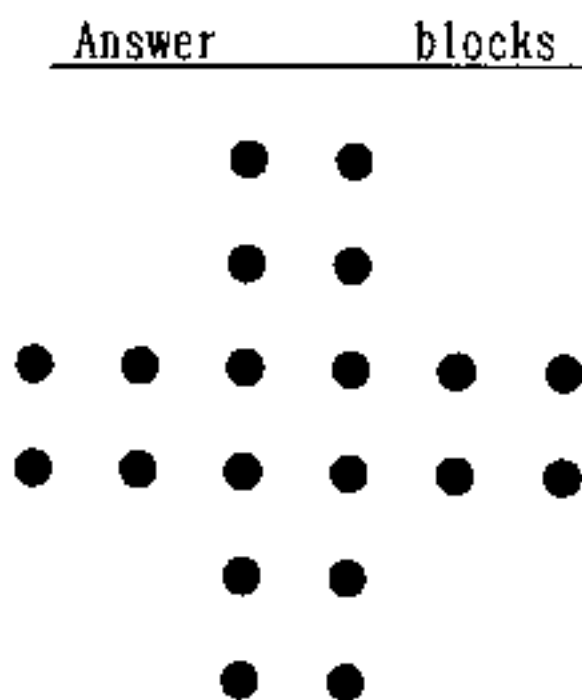
(1)



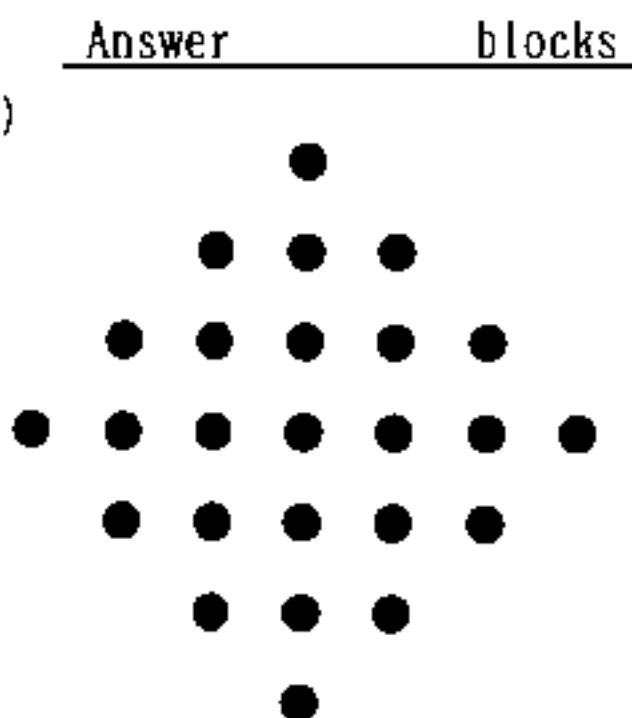
(2)



(3)



(4)



Answer circles

Answer circles

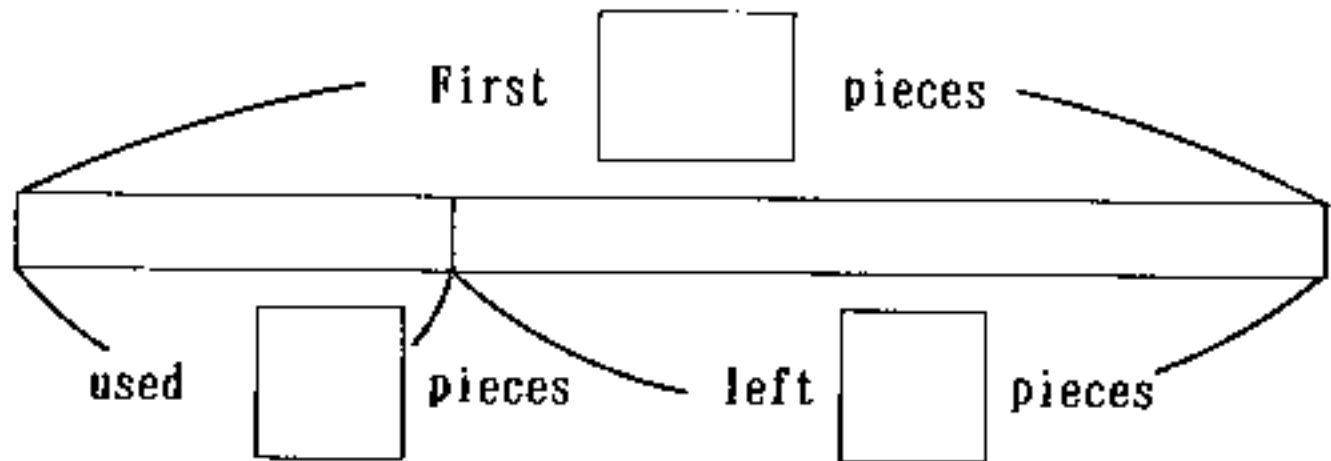
□乗法の適用

< 16. Addition and Subtraction... 2 >

□加法、減法の逆思考の問題解決

「のこり」を求める

1. You have 25 pieces of construction paper. You used 7 of them. How many pieces are left?



Equation

Answer _____ pieces

「たす数」を求める

2. 13 cars are parked. Some more cars came, so now there are 21 cars in all. How many cars came?

Equation

Answer _____ cars

「たされる数」を求める

3. There are some students in the class. 7 people came in, and so there are 23 students total. How many students were there before?

Equation

Answer _____ students

「ひかれる数」を求める

4. There are some strawberries. You ate 8 of them, and now there are only 15 strawberries. How many strawberries were there in the beginning?

Equation

Answer _____ strawberries

「ひく数」を求める

5. There are 16 pieces of construction paper. You used some of them, and now 7 remains. How many pieces did you use?

Equation

Answer _____ pieces

□順序数の問題解決

6. Children are lined up in a row. Person A is the 8th person from the front, and the 5th from the back. How many children are there in all?

Equation

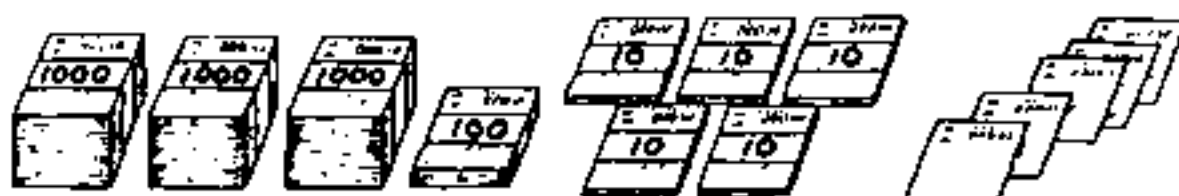
Answer _____ children

< 17. Numbers up to 10 thousand >

□ 10000までの数の十進位取り記数法による表し方

1. How many pieces are there in all?

(1)



_____ pieces

(2)



_____ pieces

Word
• thousands
place
• ten thousand

□ 10000までの数の構成と相対的な大きさ

2. Fill in the number in the blank.

(1) 7 2 0 0 is made up of 1 0 0 0's and 1 0 0's.

(2) 7 2 0 0 is made up of 1 0 0's.

(3) 7 2 0 0 is made up of tens.

(4) 1 0 0 0 0 is made up of 1 0 0 0's.

(5) The number that is 1 less than 10000 is .

(6) The number that is 10 less than 10000 is .

□ (3位数) + (3位数) で千の位に繰り上がりがある計算

3. Let's calculate.

(1) $1400 - 500 =$ (2) $634 + 523 =$

$$\begin{array}{r} 1400 \\ - 500 \\ \hline \end{array}$$

$$\begin{array}{r} 634 \\ + 523 \\ \hline \end{array}$$

□ (4位数) - (3位数) で百の位に繰り下がりがある計算

(3) $1275 - 437 =$ (4) $1000 - 515 =$

$$\begin{array}{r} 1275 \\ - 437 \\ \hline \end{array}$$

$$\begin{array}{r} 1000 \\ - 515 \\ \hline \end{array}$$

< 1. Multiplication...① >

□乗数の増減に伴う積の変化

1. This is part of a multiplication graph. What numbers fit appropriately in the blanks?

(1)

	3		9	12	15
	4	8		16	20
	5	10	15	20	25

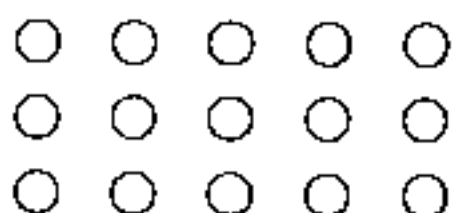
(2)

	16	20	24	28
	20	25		35
	24		36	42

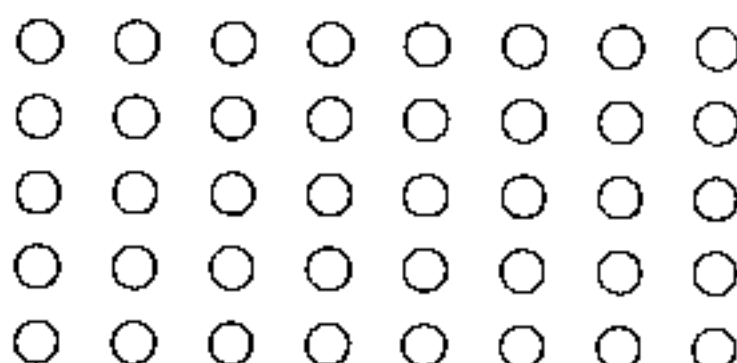
□乗法の交換法則

2. How many circles are there? Find different ways to count the circles.

(1)



(2)



□かけ算の10への拡張

3. How many stars are there?

(1)

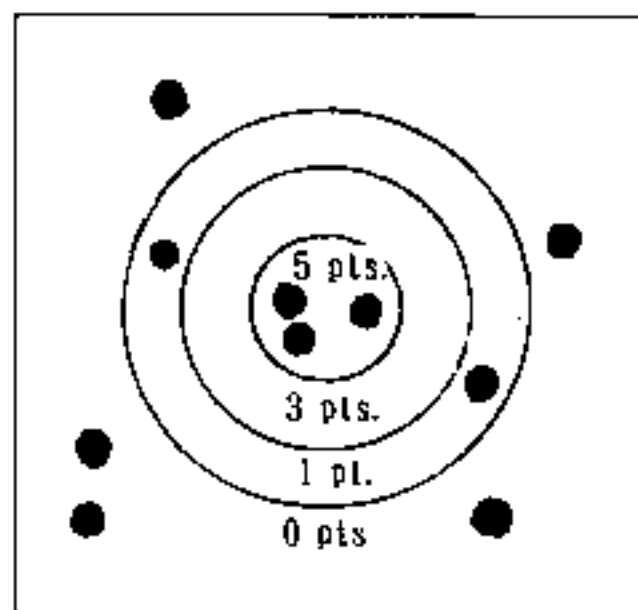


(2)



□かけ算の0への拡張

4. You played a point earning game with 10 rocks. Write the number of rocks that were in and write the score.



Results

targets	5 pts.	3 pts.	1 pt.	0 pts	total
# of rocks in	3				10
total points					

< 2. Division...① >

□除法の意味

(包含除)

Word
• Division
• ÷

1. There are 15 pieces of candy. If 3 pieces are passed out to each person, how many people can it be passed out to?

□除法の意味

(等分除)

Word
• Dividend
• Divisor

2. There are 12 cookies. If 4 people divide the cookies up evenly, how many cookies will each person receive?

□除法の意味

(包含除, 等分除の統合)

3. There are 30 strawberries. Make up a problem that uses the equation $30 \div 6$.

< 4. Division with remainders >

□余りのある除法の意味 (包含除)

1. There are 17 cookies. If you passed out 5 to each person how many people can you divide the cookies to?

□余りのある除法の意味〔等分除〕

2. There are 29 strawberries. If the strawberries are divided up evenly among 4 people, how many strawberries does each person receive?

□余りのある除法の筆算の仕方

3. Solve using vertical form.

(1) $11 \div 2$

(2) $70 \div 9$

(3) $38 \div 5$

< 5. Addition and Subtraction >

□2位数どうしの暗算の仕方 (加法)

1. Use mental math.

(1) $36 + 23$

(2) $27 + 52$

(3) $28 + 43$

(4) $77 + 16$

(5) $46 + 14$

(6) $190 + 490$

□2位数どうしの暗算の仕方 (減法)

2. Use mental math.

(1) $84 - 31$

(2) $63 - 22$

(3) $73 - 45$

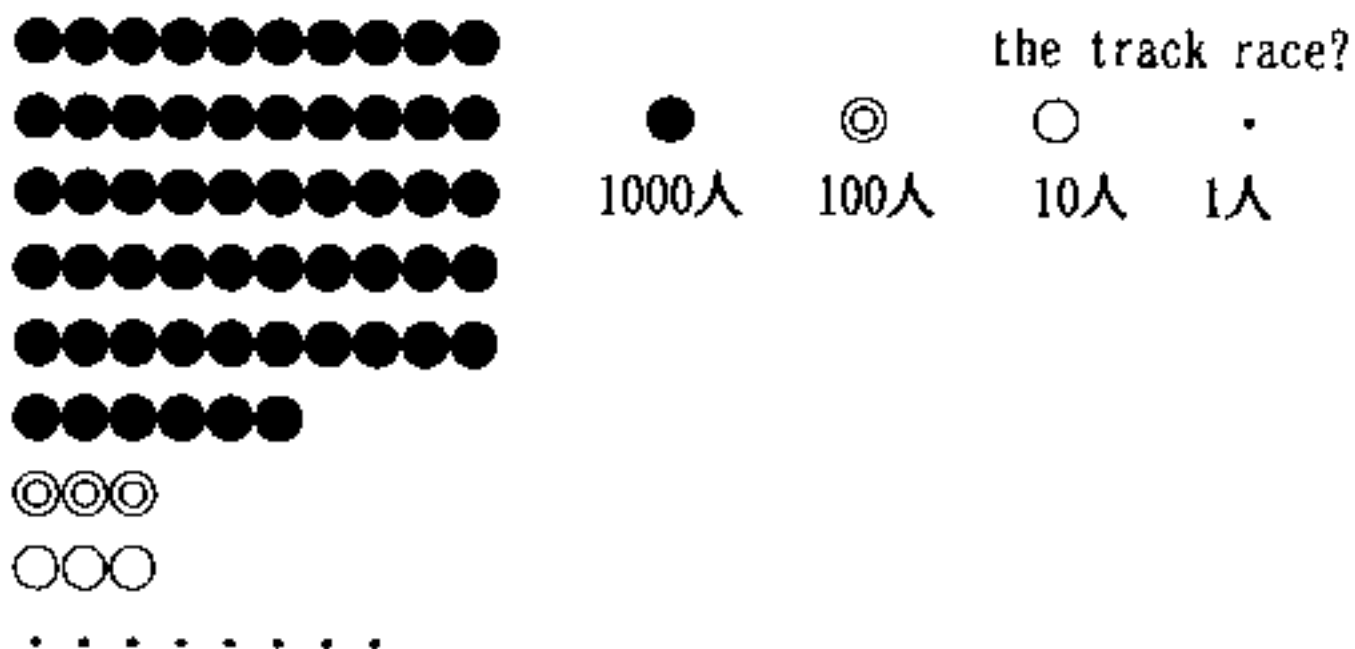
(4) $430 - 210$

(5) $860 - 590$

< 6. 大きな数 >

□1億未満の数の読み方、書き方、数の構成

1. (1) The graph below shows the number of audiences who watched the track race. How many people watch the track race?



Word

- Ten thousands
- Hundred thousands
- million
- Ten million

(2) Write in number form.

- ① • Forty-five thousand three hundred eighteen
 - Seventy thousand six hundred one
 - Eighty thousand ninety-two
- ② A number made up of three ten thousands, two thousands, 5 hundreds, and eight tens.
- ③ A number made up of 67 thousands.

(3) Write in number form.

- ① • Ninety-one million five hundred twenty six thousand three hundred eight
 - Thirty million twenty thousand forty
- ② A number made up of four ten millions, seven millions, five hundred thousands, and nine ten thousands.
- ③ A number made up of five ten millions and four ten thousands.

□大きな数の加減計算

2. Let's calculate!

(1)

$$\begin{array}{r} 54029 \\ + 63916 \\ \hline \end{array}$$

(2)

$$\begin{array}{r} 36781 \\ + 9509 \\ \hline \end{array}$$

(3)

$$\begin{array}{r} 17036 \\ - 14717 \\ \hline \end{array}$$

(4)

$$\begin{array}{r} 12680 \\ - 3594 \\ \hline \end{array}$$

< 10. Multiplication...② >

□ (2, 3 位数)
× (1位数) の
計算の仕方

1. Do it in vertical form.

(1) 13×3 (2) 24×2 (3) $\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$ (4) $\begin{array}{r} 32 \\ \times 4 \\ \hline \end{array}$

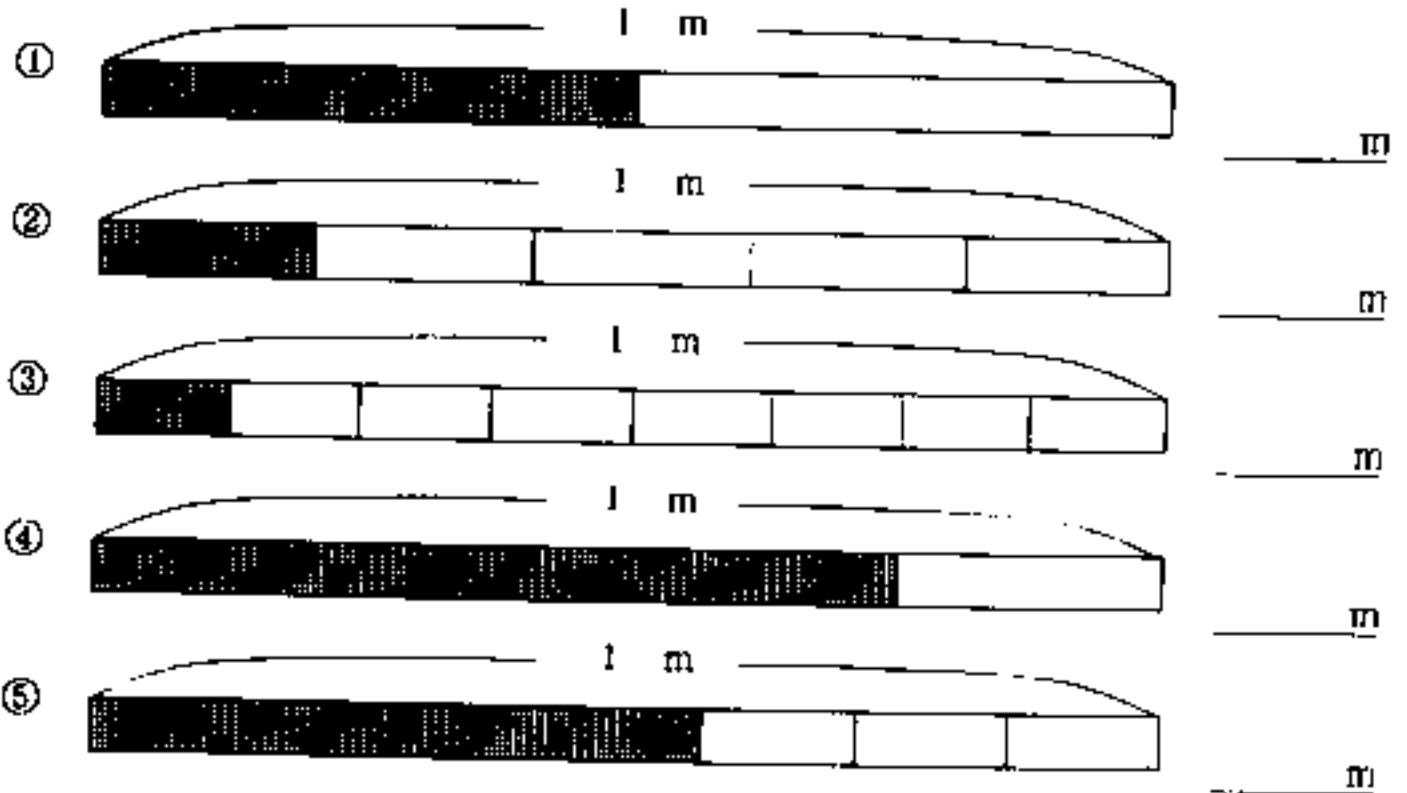
(5) $\begin{array}{r} 84 \\ \times 6 \\ \hline \end{array}$ (6) $\begin{array}{r} 234 \\ \times 2 \\ \hline \end{array}$

(7) $\begin{array}{r} 218 \\ \times 3 \\ \hline \end{array}$ (8) $\begin{array}{r} 624 \\ \times 4 \\ \hline \end{array}$ (9) $\begin{array}{r} 260 \\ \times 3 \\ \hline \end{array}$

< 13. Fraction >

□ 分数の場面, 表し
方

1. How long in centimeters is the colored part?

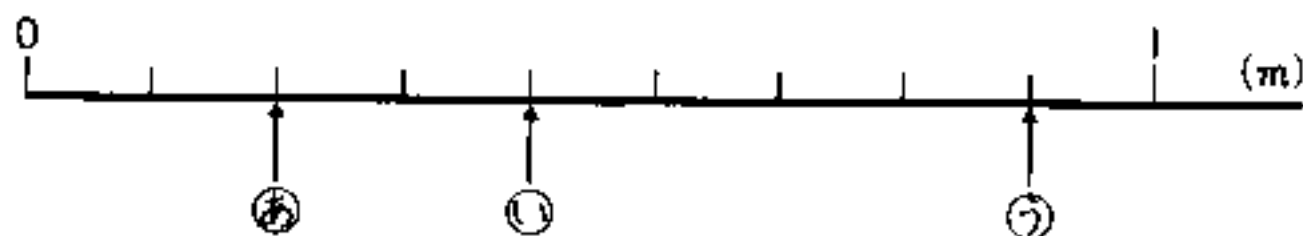


word
• fraction
• denominator
• numerator

□分数を数直線上に表す

Word
• Number line

2. Answer using the number line.



(1) How big is one scale?

(2) On the number line, fill in the spaces of ⑥ ① ⑦

□分数の加減計算

3. Let's calculate!

(1) $\frac{1}{4} + \frac{2}{4}$

(2) $\frac{2}{5} + \frac{2}{5}$

(3) $\frac{3}{4} - \frac{1}{4}$

(4) $\frac{4}{6} - \frac{3}{6}$

< 1 4. Division...② >

□(2位数) ÷ (1位数)

(3, 4位数) ÷ (1位数)

1. Let's calculate.

(1) $3 \overline{) 87}$ (2) $3 \overline{) 96}$ (3) $4 \overline{) 756}$ (4) $2 \overline{) 842}$

(5) $9 \overline{) 423}$ (6) $2 \overline{) 9356}$ (7) $4 \overline{) 94}$ (8) $4 \overline{) 3201}$

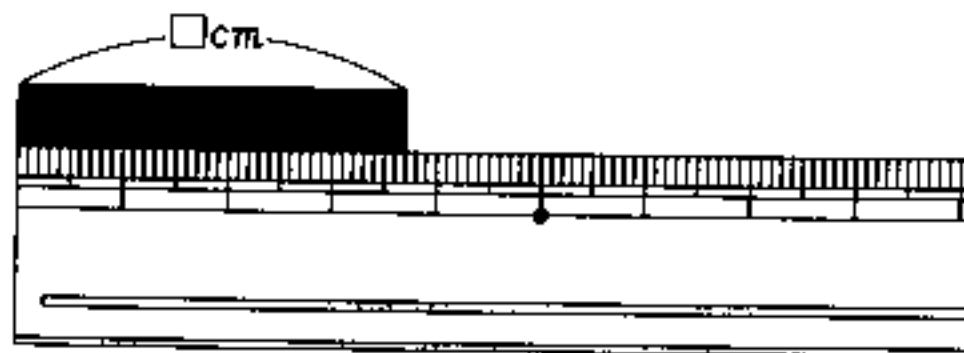
< 16. Decimals >

□ 小数の場面. 表示方

1. (1) What's the capacity of the juice?



(2) What's the length of the tape in centimeters?



□ 小数の仕組み

- | word |
|----------------|
| • decimals |
| • decimal |
| point |
| • tenths place |
| • tenths place |
| • integer |

2. Answer using the number line below.



(1) What does the scale of ⊗ represent?

(2) 0.6 is made up of how many 0.1?
 2.7 is made up of how many 0.1?

(3) Put 0.6 and 2.7 on the numberline above.

□小数の加減法

3. Lets calculate!

(1) $0.8 + 0.5$

(2) $0.9 + 0.6$

(3) $1.2 + 0.5$

(4) $1.5 + 0.9$

< 17. Multiplacation...③ >

□(2,3位数) × (2位数) のひっ算

1. Let's calculate!

(1) $\begin{array}{r} 16 \\ \times 23 \\ \hline \end{array}$

(2) $\begin{array}{r} 41 \\ \times 16 \\ \hline \end{array}$

(3) $\begin{array}{r} 48 \\ \times 75 \\ \hline \end{array}$

(4) $\begin{array}{r} 29 \\ \times 20 \\ \hline \end{array}$

(5) $\begin{array}{r} 8 \\ \times 24 \\ \hline \end{array}$

(6) $\begin{array}{r} 123 \\ \times 32 \\ \hline \end{array}$

(7) $\begin{array}{r} 367 \\ \times 32 \\ \hline \end{array}$

(8) $\begin{array}{r} 508 \\ \times 62 \\ \hline \end{array}$

□乗法の適用問題

2. You took 13 pieces of 30cm string from a 5m piece of string. How many meters and centimeters of string is left?

3. You have 16 cans, each weighing 275 grams, and 18 cans each weighing 250 grams. How many kilograms and grams is it together.

< 1. Multiplication >

□ (3位数) × (3位数) の計算

1. Let's calculate!

(1)	(2)	(3)	(4)
2 1 3	1 9 4	3 2 3	8 4 0
× 4 2 3	× 1 7 2	× 6 0 3	× 7 0 0
-----	-----	-----	-----

□ 0を含む3位数どうしの計算

2. Find the product.

(1) 3 6 8 × 2 4 6 (2) 6 5 8 × 7 4 3 (3) 1 6 4 × 3 0 7

(4) 3 5 3 × 5 7 0 (5) 8 0 7 × 4 8 0 (6) 5 3 3 × 5 0 0

word
• Product

□ (3位数) × (3位数) の適用問題

3. You bought 136 cassette tapes which costs 265 yen each. What is the total cost?

First, make an educated guess, then solve.

Word
• Educated
guess

< 3. Large numbers >

□ 大きな数の読み方

1. Read the following numbers.

(1) 4 8 1 3 7 9 5 6 2 (2) 2 1 3 6 0 6 7 0 0 0 0 0 0 0

* 1 billion = 1,000,000,000

□ 大きな数の書き方と構成

2. Write in numeral form.

(1) Four hundred twenty million five thousand seventy

(2) Three trillion fifty billion seventy six million

(3) A number made up of two ten billions and six hundred fifty ten thousands

(4) A number made up of five ten trillions and twenty one billion

□大きな数の10倍

$\frac{1}{10}$ の数

□大きな数の計算

Word

- Sum
- Difference

3. Write the number that is ten times, and one tenth of each number.

- (1) Nine hundred million (2) Five hundred billion
 (3) Twenty-one trillion

4. What would the numbers be?

- (1) Seven billion + Twelve billion
 (2) Twenty seven billion - nineteen billion
 (3) Three hundred ten billion \times ten
 (4) Forty-nine trillion \div ten

< 4. Rounding Numbers >

□がい数と四捨五入の仕方

Word

- Rounding numbers
- Rounding

1. Round to the nearest hundred thousands. Also, round to the first two digits from the left. Ex: 265309 \rightarrow 270000

- (1) 475320 (2) 2039857 (3) 60817031

2. Round to the place in the parenthesis.

- (1) 82430 [Thousands]
 (2) 6956289 [Hundred thousands]

< 5. Division >

□(2, 3, 4位数) \div (2位数) の計算と答えの確かめ

1. Do the following problems. Also, check your work.

- (1) $68 \div 21$ (2) $333 \div 92$ (3) $9014 \div 45$

□(2, 3, 4位数) \div (2, 3位数) の計算

2. Let's calculate!

- (1) $18 \overline{) 76}$ (2) $43 \overline{) 83}$ (3) $36 \overline{) 253}$

Word

- Build up
- Multiply
- Subtract
- Bring down

- (4) $81 \overline{) 168}$ (5) $11 \overline{) 744}$ (6) $49 \overline{) 564}$

- (7) $39 \overline{) 8411}$ (8) $616 \overline{) 4832}$

□わられる数, わる数, 商, あまりの関係についての適用問題

Word

- Dividend
- Divisor
- Quotient
- Remainder

3. When a number was divided by 74, the quotient was 12, and the remainder was 8. What was the number?

4. There are 432 pieces of candy. If you put 30 pieces of candy in each jar, how many jars will you be able to fill? How many will be left?

< 9. Decimals >

□小数を用いた単位換算

1. Show the amount using the unit in the parenthesis.

- (1) 4 km 5 7 0 m (km)
- (2) 3 9 7 m (km)
- (3) 8 kg 4 2 g (kg)
- (4) 6 0 1 4 g (kg)
- (5) 1 0 m 3 3 cm (m)
- (6) 5 cm (m)

□小数の位取り

Word

- hundredths place
- thousandths place
- hundredths place
- thousandths place

2. What's the number that is in the places written in each problem?

- 6 2 . 1 0 5
- (1) tens
 - (2) ones
 - (3) tenths
 - (4) hundredths
 - (5) thousandths

□小数の相対的大きみ

3. How many one tenths is the following numbers made up of?

- (1) 0.7
- (2) 2.9
- (3) 5
- (4) 30.8

4. How many one hundredths is the following numbers made up of?

- (1) 0.05 (2) 2.31 (3) 6.5

□ 小数の構成

5. Write in numeral form.

(1) A number made up of 6-tens and 40-one thousandths.

(2) A number that is one thousandths more than 0.04

□ 小数の加減計算

6. Calculate.

(1) $8.34 + 1.75$ (2) $26.5 + 0.87$

(3) $4.87 - 1.54$ (4) $10 - 0.77$

Word

- Put places in order
- Put in decimal point

□ 小数の加法・減法の適用問題

7. Nakada's height is 132.6cm. She is 3.8cm shorter than Okawa, and 2.8cm taller than Nakayama. How tall is Okawa? Also, how tall is Nakayama?

< 12. Multiplication and Division of Decimals >

□ (小数) × (整数) の計算

1. Multiply.

(1)

$$\begin{array}{r} 4.7 \\ \times 3 \\ \hline \end{array}$$

(2)

$$\begin{array}{r} 36.5 \\ \times 4 \\ \hline \end{array}$$

(3)

$$\begin{array}{r} 0.034 \\ \times 6 \\ \hline \end{array}$$

(4)

$$\begin{array}{r} 3.54 \\ \times 28 \\ \hline \end{array}$$

(5)

$$\begin{array}{r} 0.36 \\ \times 93 \\ \hline \end{array}$$

(6)

$$\begin{array}{r} 2.09 \\ \times 526 \\ \hline \end{array}$$

□ (小数・整数) ÷ (整数) の計算

2. Divide the following until you have no remainders.

(1) $4 \overline{) 27.4}$ (2) $3 \overline{) 9.72}$ (3) $4 \overline{) 72.2}$
 (4) $75 \overline{) 5.1}$ (5) $25 \overline{) 17}$ (6) $8 \overline{) 5}$

□ (小数) ÷ (整数) で、商を概数で表す計算

3. Round the quotients to the nearest one hundredths.

(1) $6 \overline{) 32.2}$ (2) $68 \overline{) 73.2}$ (3) $26 \overline{) 8.63}$

□ (小数) × (整数) の適用問題

4. There are 15 baggs and each of them weighs 2.8kg. What's the total weight in kg?

□ (小数) ÷ (整数) の適用問題

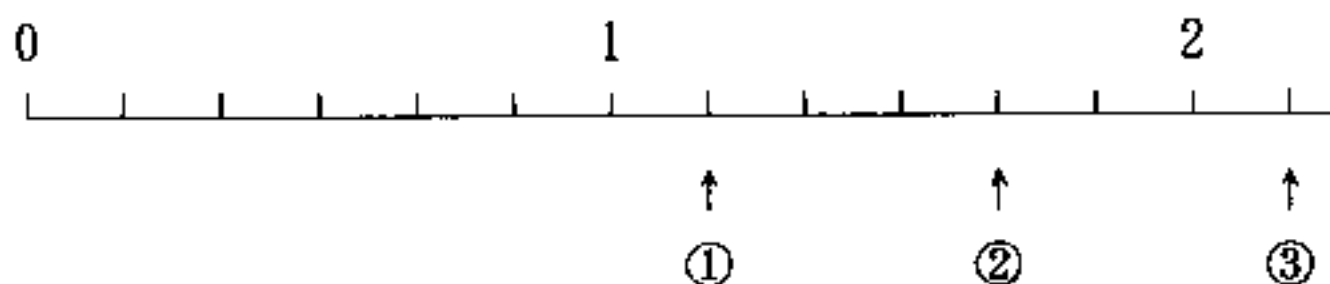
5. You want to divide up 10.4kg of rice among 8 people. How much will each person recieve?

< 14. Fraction >

□ 仮分数, 帯分数の意味

1. Write the fractions that belongs in ①, ②, ③ in improper and mixed fractions in the number line below.

Words
 • Improper fraction
 • Mixed fraction



□ 真分数, 帯分数, 仮分数の意味

2. Categorize the following by improper fractions, mixed fractions, and proper fractions.

Words
 • Proper fraction

(1) $\frac{3}{8}$ (2) $\frac{6}{7}$ (3) $\frac{9}{10}$ (4) $\frac{9}{7}$
 (5) $2 \frac{4}{5}$ (6) $\frac{3}{3}$ (7) $\frac{5}{4}$

□ 仮分数と帯分数の相互関係

3. Change the following improper fractions to mixed fractions and mixed fractions to improper fractions.

(1) $\frac{7}{3}$

(2) $1\frac{1}{5}$

(3) $2\frac{2}{4}$

(4) $\frac{19}{6}$

(5) $4\frac{4}{7}$

(6) $\frac{35}{12}$

□ 分数の加減計算

4. Calculate.

(1) $\frac{3}{7} + \frac{6}{7}$

(2) $\frac{7}{8} + \frac{3}{8}$

(3) $2\frac{5}{6} + \frac{5}{6}$

(4) $2\frac{4}{9} + 2\frac{7}{9}$

(5) $\frac{6}{7} - \frac{2}{7}$

(6) $1\frac{3}{5} - \frac{4}{5}$

(7) $3 - \frac{3}{4}$

(8) $4\frac{1}{8} - 1\frac{7}{8}$

□ (真分数) + (真分数) の適用問題

5. Yamada ran $\frac{7}{11}$ km yesterday and $\frac{6}{11}$ km today.
How much did he run total?

□ (帯分数) - (帯分数) の適用問題

6. Out of the $10\frac{3}{5}$ kg of rice you had, you ate $1\frac{4}{5}$ kg of it. How many kg is left of the rice?

< 1. Calculations using integers and decimals >

□それぞれの位が表
す大きさの理解

1. Write the numbers that fit in the blanks.

$$436.57 = \square \times 4 + \square \times 3 + \square \times 6 + \square \times 5 + \square \times 7$$

□数のしくみの理解

2. Write the following numbers.

(1) What's 31.52 times 10? 31.52 times 100?

(2) What's 203.7 times 10? 203.7 times 100?

(3) What's 46.8 times $\frac{1}{10}$? 46.8 times $\frac{1}{100}$?

□末位に0のある数
の乗法・除法の計算

3. Calculate.

(1) 4700×800

(2) 8300×2500

(3) 3.84×5000

(4) $6800 \div 200$

(5) $150000 \div 3000$

(6) $84000 \div 1200$

□末位に0のある数
の除法の計算
(わりきれない
場合)

4. You plan to spend 27,000 yen. You decided to buy some books that are each worth 400 yen. How many books can you buy? How much change will you get?

□積や商の見積もり

5. Estimate to see briefly how much the product or the quotient is. Then solve using with a calculator and compare the answer.

(1) 91820×291

(2) 3271×4265

(3) $6137415 \div 435$

(4) $91500528 \div 193$

< 3. Multiplying decimals >

□(整数)×(帯小
数)の意味と計算方
法

1. You buy 3.8 meters of ribbon that costs 120 yen per meter. How much will it cost?

□ (帯小数) × (帯小数) の意味と筆算形式の理解

2. The faucet of the water pipe breaks, and every hour 1.3 liters of water leaks out. It kept leaking for 3.5 hours. How much liters leaked out in total?

□ (小数) × (小数) の計算

3. Calculate.

(1) 3.6×2.7 (2) 2.2×5.7 (3) 6.8×7.4

(4)
$$\begin{array}{r} 4.08 \\ \times 5.6 \\ \hline \end{array}$$
 (5)
$$\begin{array}{r} 0.67 \\ \times 2.83 \\ \hline \end{array}$$
 (6)
$$\begin{array}{r} 0.94 \\ \times 3.05 \\ \hline \end{array}$$

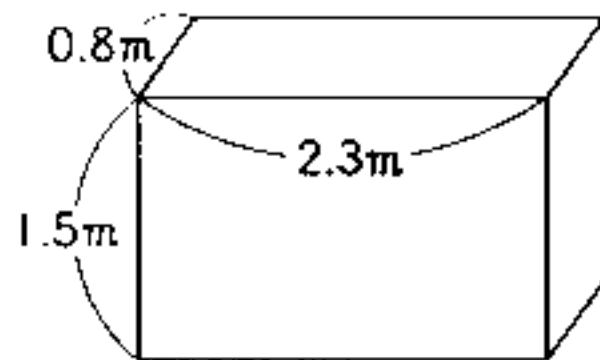
□ 乗数の大きさによる積と被乗数の大小関係

4. Which product becomes a smaller number than the number that is being multiplied to?

(1) 5×0.4 (2) 7.3×1.7 (3) 6.38×0.05

□ 小数の体積公式への適用

5. What is the volume of a prism that is 0.8 meters in length, 2.3 meters in width, and 1.5 meters in height?



< 4. Division of Decimals >

□ (整数) ÷ (小数) の意味と計算方法

1. 3.2 meters of ribbon costs 480 yen. How much will one meter of this ribbon cost?

□ (帯小数) ÷ (帯小数) の意味と筆算形式

2. A 1.5 meter bar weighs 3.45kg. How much will one meter of this bar weigh?

(小数) ÷ (小数)
の計算

除数の大きさによ
る商と被除数の大小
関係

あまりのあるわり
ざんの立式と計算

あまりのあるわり
ざんの計算

3. Calculate.

(1) $8.84 \div 5.2$

(2) $26.6 \div 3.8$

(3) $0.6 \div 5.25$

(4) $1.45 \div 2.842$

4. Which quotient becomes larger than the dividend?

(1) $9 \div 0.5$ (2) $2.4 \div 4.8$ (3) $0.69 \div 0.03$

5. You put 2.3 liters of juice into jars that fit 5 deciliters of liquid each. How many 5 deciliter jars would there be, and how much juice would be left?

6. Calculate to the nearest tenths place. Also, write the remainder.

(1) $4.2 \div 5$ (2) $0.37 \div 8.6$ (3) $1.07 \div 5.02$

< 6. Character of Integers >

偶数と奇数, 2つ
の集合の分類

Word

- Evens
- Odds

倍数の意味

Word

- multiples

1. Divide the following integers in to odds and evens.

46 61 85 204 343 550

2. Find the multiples of six from the following numbers.

1 9 12 18 25 48 78

□公倍数, 最小公倍数の
見つけ方

Word
• Common multiple
• Least common multiple

□約数の意味

Word
• Factor

□公約数, 最大公約数の
見つけ方

Word
• Common factors
• Greatest common factor

3. Write the number.

- (1) Write the smallest five common multiples of 4 and 6.
(2) What's the least common multiple of 12 and 15?

4. Choose the factors of 36 from the numbers below.

1 3 8 9 12 16 24

5. Write the following numbers.

- (1) All of the common factors of 16 and 36.
(2) The greatest common factor of 18 and 30.

< 7. Addition and Subtraction of fractions >

□大ききの等しい分
数の分母どうし, 分
子どうしの関係

1. Which fraction is equal to $\frac{2}{6}$?

$\frac{6}{2}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{3}{9}$ $\frac{3}{12}$

□大ききの等しい分
数の構成

2. What numbers belong in the box?

(1) $\frac{2}{5} = \frac{\square}{10} = \frac{6}{\square}$ (2) $\frac{1}{4} = \frac{2}{\square} = \frac{\square}{20}$

□約分の仕方と意味

Word
• Reduce

3. Reduce.

(1) $\frac{7}{28}$ (2) $\frac{15}{21}$ (3) $\frac{16}{24}$ (4) $1\frac{20}{32}$ (5) $2\frac{28}{42}$

□通分の仕方と意味

Word

• reducing to a common denominator

□異分母の分数のたしざんの立式と計算

□異分母真分数どうし、異分母帯分数どうしのたしざん、ひきざんの計算

4. Make the numbers in the parenthesis have the same denominators and reduce if possible.

(1) $\left(\frac{1}{4}, \frac{1}{6}\right)$ (2) $\left(\frac{3}{4}, \frac{7}{9}, \frac{11}{12}\right)$

5. There were $\frac{1}{3}$ liters of orange juice in a bottle, and $\frac{1}{2}$ liters of orange juice in a paper pack. How much liters of orange juice are there total?

6. Calculate.

(1) $\frac{1}{4} + \frac{3}{7}$ (2) $\frac{1}{9} + \frac{5}{12}$ (3) $\frac{4}{15} + \frac{2}{5}$

(4) $2\frac{5}{8} + 1\frac{3}{4}$ (5) $\frac{5}{6} - \frac{3}{10}$

(6) $4\frac{2}{5} - 2\frac{2}{3}$ (7) $\frac{1}{2} - \frac{1}{16} + \frac{1}{8}$

<13. Division and Fractions>

□わりざんの商を分数で表すことの理解

1. Write the quotient in fraction form.

(1) $2 \div 7$ (2) $1 \div 5$ (3) $10 \div 3$ (4) $15 \div 4$

□分数倍で表すことの理解

2. There are 2 bottles with 4 liters and 7 liters of water.

- (1) How many times is 4 liters of water compared to 7 liters of water?
(2) How many times is 7 liters of water compared to 4 liters of water?

□分数を小数で表すことの理解

3. Change the fractions below to decimals. If it doesn't divide up evenly, then round up to the nearest hundredth.

(1) $\frac{3}{4}$ (2) $\frac{3}{10}$ (3) $\frac{2}{3}$ (4) $1\frac{1}{2}$ (5) $3\frac{1}{7}$

□小数を分数で表す
ことの理解

4. Change the decimals to fractions.

- (1) 0.7 (2) 0.09 (3) 1.8 (4) 3.05

□分数と小数の大小

5. Compare the fractions and decimals in the parenthesis.
Which is bigger? Smaller?

比較

- (1) $\left(1 \frac{3}{4}, 1.74 \right)$ (2) $\left(\frac{1}{3}, 0.34 \right)$

□時間を分数で表す
こと

6. Show the times below in fraction form.

- (1) 15 minutes (2) 45 minutes
(3) 90 minutes (4) 1 hour 10 minutes

< 1. Multiplication of fractions and integers >

□(真分数) × (整数)

1. When making 1 cake, you use $\frac{2}{7}$ liters of milk.
How many liters of milk do you need for 3 cakes?

2. Calculate.

(1) $\frac{1}{9} \times 4$ (2) $\frac{3}{11} \times 2$ (3) $\frac{3}{5} \times 4$ (4) $\frac{7}{9} \times 2$

□(真分数) ÷ (整数)

3. You divide $\frac{4}{5}$ liters of juice in 3 equal parts.
How much juice will you have in each cup?

4. Calculate.

(1) $\frac{2}{7} \div 3$ (2) $\frac{3}{4} \div 2$ (3) $\frac{3}{5} \times 4$ (4) $\frac{7}{9} \times 2$

< 2. Multiplication and Division of Fractions >

□(整数) × (分数)

1. There is a steel bar that weighs 7 kg per every 1m.
How much would $\frac{5}{6}$ m of this bar weigh?

2. Calculate.

(1) $3 \times \frac{1}{8}$ (2) $8 \times \frac{1}{5}$ (3) $8 \times \frac{4}{9}$ (4) $11 \times \frac{5}{8}$

□(分数) × (分数)

3. There is oil that weighs $\frac{4}{5}$ kg per every 1 liter.
How much does $\frac{2}{3}$ liters of this oil weigh in kg?

4. Calculate.

$$(1) \frac{3}{5} \times \frac{2}{7} \quad (2) \frac{5}{7} \times \frac{3}{4} \quad (3) \frac{3}{8} \times \frac{3}{7} \quad (4) \frac{8}{9} \times \frac{2}{3}$$

$$(5) \frac{5}{7} \times 1 \frac{5}{6} \quad (6) 2 \frac{3}{4} \times 1 \frac{4}{5} \quad (7) \frac{3}{8} \times \frac{2}{3} \times \frac{4}{7}$$

かけられる数と積の大小関係

5. Write a circle in the parenthesis on the ones which the product is less than 9.

$$(1) 9 \times 1 \frac{1}{2} \quad (\quad) \quad (2) 9 \times \frac{7}{10} \quad (\quad)$$

$$(3) 9 \times \frac{12}{13} \quad (\quad) \quad (4) 9 \times 1 \frac{9}{10} \quad (\quad)$$

分数のかけ算
(計算のきまり)

6. Write the number that belong in the box.

$$\textcircled{1} \left(\frac{1}{2} \times \frac{1}{3} \right) \times \frac{4}{5} = \boxed{} \times \left(\frac{1}{3} \times \frac{4}{5} \right)$$

$$\textcircled{2} \frac{5}{7} \times \left(\frac{2}{5} + \frac{3}{4} \right) = \frac{5}{7} \times \boxed{} + \frac{5}{7} \times \boxed{}$$

(整数) \div (分数)

7. You can paint 5 square meters of wall with $\frac{2}{3}$ liters of paint. How many square meters of wall can you paint with 1 liter of paint?

8. Calculate.

$$(1) 2 \div \frac{3}{5} \quad (2) 4 \div \frac{3}{8} \quad (3) 7 \div \frac{2}{3} \quad (4) 9 \div \frac{2}{5}$$

逆数を考える

Word
• Reciprocal

9. Find the reciprocal of each number.

$$(1) \frac{3}{5} \quad (2) \frac{3}{7} \quad (3) 1 \frac{5}{7}$$

$$(4) 6 \quad (5) 0.6 \quad (6) 1.05$$

□(分数)÷(分数)

10. There is a piece of wood that weighs $\frac{2}{5}$ kg for every $\frac{3}{4}$ meter of length.
How much does 1 meter of this wood weigh?

11. Calculate.

(1) $\frac{2}{5} \div \frac{3}{5}$ (2) $\frac{5}{16} \div \frac{5}{8}$ (3) $1\frac{4}{5} \div \frac{7}{25}$ (4) $1\frac{2}{3} \div 1\frac{1}{2}$
(5) $2\frac{2}{3} \div 1\frac{5}{8}$ (6) $2\frac{5}{6} \div 1\frac{1}{2}$ (7) $1\frac{2}{3} \div 1\frac{4}{9}$

□わられる数と商の
大小関係

12. Which ones do the quotient become less than 13?

① $13 \div \frac{3}{5}$ () ② $13 \div \frac{7}{9}$ ()
③ $13 \div 1\frac{5}{6}$ () ④ $13 \div \frac{11}{10}$ ()

< 4. Calculations using Fractions and Decimals >

□分数と小数のかけ算

1. Write the number that belongs in each blank.

(1) $3\frac{3}{7} \times 0.25 = \frac{\square}{7} \times \frac{\square}{\square}$ (2) $4.2 \times \frac{2}{3} = \frac{\square}{\square} \times \frac{2}{3}$

□(分数)÷(小数)

2. Write the number that belongs in each blank.

(1) $\frac{1}{20} \div 3.2 = \frac{1}{20} \times \frac{\square}{\square}$ (2) $3\frac{3}{7} \div 0.45 = \frac{\square}{\square} \times \frac{\square}{\square}$

□3□の分数乗除
混合計算

3. Write the number that belongs in each blank.

(1) $\frac{4}{5} \times \frac{3}{8} \div \frac{6}{7} = \frac{4}{5} \times \frac{\square}{\square} \times \frac{\square}{\square} = \frac{\square}{\square}$
(2) $1\frac{7}{8} \div 1\frac{3}{4} \times \frac{2}{5} = \frac{\square}{8} \times \frac{4}{\square} \times \frac{\square}{\square} = \frac{\square}{\square}$
(3) $3.8 \div 0.34 \times 0.2 = \frac{\square}{\square} \times \frac{\square}{\square} \times \frac{\square}{\square} = \frac{\square}{\square}$