## Practice Book for Mathematics

## Answer Book


（6） Col

$\stackrel{\circ}{\circ}$ －




2 Write the numbers in the $\square$
（1）The answer to $7 \times 5$ is 7 larger than $7 \times 4$ ．
（2）The answer to $7 \times 5$ is 7 smaller

$$
\text { than } 7 \times 6
$$

（3）The answer to $3 \times 4$ is 3 larger than $3 \times 3$ ．
（4）The answer to $3 \times 4$ is 3 smaller
than $3 \times 5$ ．
（5）The answer to $5 \times 3$ is 5 larger than $5 \times 2$ ．
（6）The answer to $4 \times 8$ is 4 smaller
than $4 \times 9$


3 Write the numbers in the $\square$ ．
$\begin{array}{ll}7 \times 5=7 \times 4+\boxed{7}, & \text {（2）} 7 \times 5=7 \times 6-\boxed{7} \\ \text {（1）} \\ 7 \times 4=3 \times \boxed{3}+3 & \text {（4）} 3 \times 4=3 \times \boxed{5}-3 \\ \text {（3）} 3 \times 4 \\ \text {（5）} 5 \times 3=5 \times 2+\square & \text {（6）} 4 \times 8=4 \times \square 9 \\ \text {（7）} 8 \times 6=8 \times 7-\boxed{9} & \text {（8）} 6 \times 7=6 \times \square 6\end{array}$


Find the multiplication math sentences that have the same answers as the following sentences．Then find the answers．
（1） $7 \times 5=5 \times 7=35$（2） $9 \times 4=4 \times 9=36$
（3） $2 \times 9=9 \times 2=18$（1） $4 \times 6=6 \times 4=24$
（3） $6 \times 3=3 \times 6=18$（6） $5 \times 8=8 \times 5=40$
（1） $1 \times 5=5 \times \square=5$（3） $3 \times 2=2 \times 3=6$
（1） $8 \times 4=4 \times 8=32$（1） $9 \times 7=7 \times 9=63$
（1） $2 \times 7=7 \times \square=14$（1） $6 \times 5=5 \times 6=30$


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Example Write the numbers in the


Write the numbers in the
（1） $6 \times 8=48$
（2） $7 \times 3=21$
（3） $5 \times 2=10$
（4） $9 \times 5=45$
（3） $4 \times 4=16$
（6） $2 \times 8=16$
（1） $3 \times 7=21$
（8） $6 \times 3=18$
（2） $5 \times 2=10$
（1） $3 \times 4=12$
（1） $4 \times 8=32$
（1） $7 \times 7=49$
（B） $8 \times 5=40$
（1） $9 \times 6=54$

1 Calculate the following multiplication problems．
（1） $10 \times 5=50$（2） $10 \times 3=30$（3） $10 \times 8=80$


2 Calculate the following multiplication problems．


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2 I played a scoring game．The score is the point written where the coin is stopped by flipping the coin with my finger．As a result of doing I times，the results were as follows．Calculate the total of my scores．


Math sentence

$$
\begin{aligned}
& 10 \times 1=10 \\
& 3 \times 4=12 \\
& 0 \times 5=0 \\
& 10+12+0=22
\end{aligned}
$$



0 points $\longdiv { \Omega }$

Answer 22 points


1 Calculate the following multiplication problems．
（1） $20 \times 4=80$
（2） $30 \times 3=90$
（3） $40 \times 6=240$
（4） $50 \times 7=350$
（5） $90 \times 8=720$
（6） $80 \times 5=400$

Example 2 Calculate the following multiplication problems．


2 Calculate the following multiplication problems．
（1） $300 \times 3=900$
（2） $500 \times 5=2500$
（3） $400 \times 6=2400$
（4） $800 \times 9=7200$
（5） $700 \times 7=4900$
（6） $600 \times 5=3000$

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1 Write the numbers in the $\square$ ．
（1）The answer to $8 \times 6$ is 8 larger than $8 \times 5$
（2）The answer to $9 \times 4$ is 9 larger than $9 \times 3$ ．
（3）The answer to $6 \times 3$ is 6 larger than $6 \times 2$ ．
（4）The answer to $7 \times 5$ is 7 smaller than $7 \times 6$ ．
（5）The answer to $3 \times 8$ is 3 smaller than $3 \times 9$ ．
（6）The answer to $4 \times 6$ is 4 smaller than $4 \times 7$ ．
2 Write the numbers in the $\square$ ．
（1） $5 \times 6=5 \times 5+5$（2） $8 \times 4=8 \times 3+8$
（3） $7 \times 4=7 \times 3+7$（4） $3 \times 5=3 \times 6-$
（5） $6 \times 8=6 \times 9-6$
（6） $2 \times 6=2 \times 7-2$

3 Write the numbers in the $\square$

－

©
$12 \times 3\left\langle\begin{array}{r}7 \times 3=21 \\ \frac{\boxed{5}}{7} \times 3=15 \\ \text { Altogether } \boxed{36}\end{array}\right.$ $15 \times 4\left\langle\begin{array}{r}9 \times 4= \\ \begin{array}{|}96 \\ 6 \\ \hline\end{array} \\ \text { Altogether } 60 \\ \hline\end{array}\right.$

4 Write the numbers in the
（1） $6 \times \boxed{8}=48$
（2） $3 \times 7=21$
（3） $4 \times \boxed{4}=16$
（4） $8 \times 5=40$
（5） $4 \times 8=32$
（C） $5 \times 2=10$

5 Calculate the following multiplication problems．

| （1） $20 \times 8=400$ | （2） $50 \times 7=450$ |
| :--- | :--- |
| （3） $90 \times 6=540$ | （4） $400 \times 8=3200$ |
| （5） $300 \times 7=2100$ | （6） $600 \times 3=1800$ |
| （7） $0 \times 5=4$ | （8） $8 \times 0=4$ |

## Page 12•13



Example 1
（1）A girl left school at I：45 p．m．and arrived at the station at 2：20 p．m．．How long did it take to get there？


2 A boy walked 25 minutes and traveled 50 minutes by bus to go the cinema．How long did it take to get there？


1 How long did it take to get there in the following situations？
（1）A man left his house at $9: 45$ and arrived at a café at 10：35．


50 minutes

2．A woman walked 35 minutes and traveled 55 minutes by bus to go to a hospital．


2 What is the end time point？


3 How long is the following time intervals？
（1）From｜।：45 a．m．to 12：50 p．m．
2 From 1：10 p．m．to $4: 20$ p．m

$$
=\square \text { hour } 5 \text { minutes }
$$ 3 hour 10 minutes

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1 How many seconds do the following clocks show？
（1）
2 How many seconds and minutes are the following units of time？
1） 100 seconds 2 minutes 1 minute 40 seconds． $\qquad$
3 How long does it take to clap 10 times？
（2）3


Choose the story that indicates the following picture．


Answer B

## Page 18-19

A \begin{tabular}{|l|}

\hline | A library opens at $9: 00$ a.m. I |
| :--- |
| should leave my house at $8: 45$ |
| a.m. | <br>

B | A language class started at $8: 15$ |
| :--- |
| a.m. It was 45 minutes ago. | <br>

\hline
\end{tabular}



Example Calculate $482+164$ by using the algorithm.
Line up the numbers vertically in



Calculate the following addition problems by using the algorithm.


## Page 20-21



Calculate the following addition problems by using the algorithm


## Page 22•23



Page $24 \cdot 25$


Calculate the following subtraction problems by using the algorithm．（1）

（5－3） $63^{12} 2^{12-7=0}$

$$
\begin{array}{llll}
\text { (3) } 758-179 & \text { (4) } 814-475 & \text { (5) } 935-289 & \text { (6) } 632-385
\end{array}
$$

$$
\begin{array}{lllll}
\text { (7) } 321-123 & \text { (8) } 543-345 & 765-567 & \text { (10) } 987-789 \\
\hline
\end{array}
$$

| （3） | 579 | 4 | 339 | （3） | 646 | （6） | 247 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| （1） | 198 | 8 | 198 | （9） | 198 | （10） | 198 |



Calculate the following subtraction problems by using the algorithm．



Example Calculate 1000 － 347 by using the algorithm．


Calculate the following subtraction problems by using the algorithm




Calculate the following subtraction problems by using the algorithm．



1 Calculate the following addition problems in your head．


2 Calculate the following subtraction problems in your head．



1 Calculate the following addition problems in your head．
（1） $220+298=518$
（2） $350+398=748$
（4） $510+199=709$
（6） $340+399=739$
（8） $140+297=437$
（10） $130+496=626$

2 Calculate the following subtraction problems in your head
（1） $1000-322=678$
（2） $1000-354=646$
（3） $1000-682=318$
（4） $1000-528=472$
（5） $1000-456=544$
（6） $1000-672=328$
（7） $\begin{aligned} 1000-582 & =418 \\ \text { 9．} 1000-878 & =122\end{aligned}$
（8） $1000-264=736$
（10） $1000-798=202$

## Page $30 \cdot 31$



Example 1 Calculate the following in your head


1 Calculate the following addition problems in your head．
（1） $475+67+33=575$
（2） $573+81+19=673$
（3） $296+72+28=396$
（4） $358+43+57=458$


2 Calculate the following addition problems by using the algorithm．




1 Calculate the following addition problems by using the algorithm．



2 Calculate the following subtraction problems by using the algorithm． |  | 6 | 5 | 4 |  |  | 9 | 8 | 7 |  |  | 6 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| - | 4 | 5 | 6 |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 9 | 8 | - |  | 7 | 8 | 9 |  |  |  |  |

|  | 1 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: | :--- | :--- | :--- | :--- |
| - |  | 4 | 5 | 6 |
|  |  | 5 | 4 | 4 |

3 Calculate the following problems in your head
（1） $45+23=68$
（2） $56+38=94$
（3） $250+499=749$
（4） $74-33=41$
（5） $84-49=35$
（6） $1000-257=743$

Page $32 \cdot 33$


1 Write the division symbol．

$$
\stackrel{\bullet}{\bullet} \stackrel{0}{\bullet}+\stackrel{\circ}{\circ} \stackrel{\circ}{\circ}+\frac{\circ}{\circ} \stackrel{\circ}{\circ}+
$$

2 Read the following questions and write the math sentences．
（1）There are 12 pieces of candy．If 3 children share them equally， how many pieces of candy will each child get？

（2）There are 14 pencils．If 2 children divide them evenly，how There are 14 pencils．If 2 children divide them evenly，how
many pencils will each child get？ many pencils will each child get？
$\begin{aligned} & \text { Math } \\ & \text { sentence } \\ & \end{aligned} \mathrm{l} \div 2$
$\square$


3 Read the following questions and write the math sentences Then find the answers．
（1）There are 24 pieces of candy．If 6 children share them equally， how many pieces of candy will each child get？

（2）There are 32 pencils．If 4 children divide them evenly，how many pencils will each child get？

（3）There are 15 oranges．If 5 children share them equally，how many oranges will each child get？

Math
sentence

$\quad$ Answer $3 \div 5=3$ oranges

Page $34 \cdot 35$
How Many People ？
There are 12 chocolates．If we give 4 chocolates
to each child，how many children can share the
answer．

Read the following questions and write the math sentences．Then find the answer．
（1）There are 20 flowers．If we give 4 flowers to each person，how many people can share the flowers？

| Math sentence | $20 \div 4=5$ | Answer | 5 | people |
| :---: | :---: | :---: | :---: | :---: |
| There are 36 balls．If we put 9 balls in each basket，how many baskets do we need？ |  |  |  |  |
| Math sentence | $36 \div 9=4$ | Answer | 4 | baskets |

（3）There is a ribbon that is 24 cm long．We want to cut an 8 cm long pieces of ribbon．How many pieces of ribbon can we cut？ Math Math $\square$ Answer 3 pieces

－Example Look at the following picture，math sentence and answer．Then choose the most appropriate problem sentence．


Look at the following picture，math sentence and answer．Then choose the most appropriate problem sentence．


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1 Calculate the following division problems
（1） $0 \div 2=0$
（2） $0 \div 4=0$
（3） $0 \div 8=0$
（4） $0 \div 5=0$
（5） $0 \div 3=0$
（6） $0 \div 7=0$


2 Calculate the following division problems．

（1） $7 \div 1=\square \quad$（2） $9 \div 1=\square \quad$（3） $3 \div 1=$| 3 |
| :--- |

（4） $5 \div 1=5$
（5） $4 \div 1=4$
（6） $6 \div 1=6$
36


Answer the following questions．
（1）There is a red ribbon and a blue ribbon．The length of the red ribbon is 36 cm ．The length of the blue ribbon is 9 cm ．How many times as long is the red ribbon as the blue ribbon？


2 There are 21 cans of orange juice and 7 cans of grape juice． How many times as many cans of orange juice are there as cans of grape juice？
Math
sentence
Answer 3 times
（3）There are 42 pieces of coloured paper and 6 pieces of white paper．How many times as many coloured paper are there as white paper？


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Answer the following questions
（1） 60 sheets of paper are divided evenly among 3 people．How many sheets of paper will each person get？
sentence $\square$ Answer $20 \begin{aligned} & \text { sheets of } \\ & \text { paper }\end{aligned}$

2． 50 cupcakes are divided evenly among 5 children．How many cupcakes will each child get？
Math
sentence $\quad$ Answer $10 \div 5=10$ cupcakes
（3） 60 pencils are divided evenly among 2 students．How many pencils will each student get？


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1 Calculate the following division problems．


2 Answer the following questions．
（1）There are 48 pieces of candy．If 8 children share them equally， how many pieces of candy will each child get？
Mat $\qquad$ Answer 6 pieces of

2 There are 36 flowers．If we put 4 flowers in each vase，how many vases do we need？

（3）There are 24 black pens and 6 red pens．How many times as many black pens are there than red pens？

| Math |
| :--- |
| sentence |$\quad 24 \div 6=4$ Answer 4 times

3 Look at the following picture，math sentence and answer． Then choose the most appropriate problem sentence



1 Read the lengths of the on the tape measures below．


2 Draw an to show the lengths of $C, D$ and $E$ on the tape measure below．
C ： 2 m 50 cm
D ： 2 m 80 cm
E： 3 m 50 cm

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| $5-2$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | What is the length in metres of a straight line from a boy＇s house to the school？What is the length in metres of the side streets from the house to the hospital？ |  |  |  |  |
|  | The length of a straight line between two places is called＂direct distance．＂And the length along streets between two places is called＂travel distance．＂ <br> Travel Direct Distance Distance |  |  |  |  |
|  | Direct distance is $\square$ 560 m Travel distance is |  |  |  |  |

What is the direct distance and the travel distance between the following places？

（1）Between the house and the farm． Direct distance is 600 m ．Travel distance is 920 m ．
（2）Between the farm and the school． Direct distance is 500 m ．Travel distance is 1610 m ．
（3）Between the house and the school． Direct distance is $700 \mathrm{~m} . \quad$ Travel distance is 1870 m ．


Convert the lengths to $\mathrm{m}, \mathrm{km} / \mathrm{km}$ and m ．

（1） $1000 \mathrm{~m}=\square \mathrm{km}$
（2） $5000 \mathrm{~m}=5 \mathrm{~km}$
（3） $1200 \mathrm{~m}=\square \mathrm{km} 200 \mathrm{~m}$（4） $2650 \mathrm{~m}=2 \mathrm{~km} 650 \mathrm{~m}$
（5） $3776 \mathrm{~m}=3 \mathrm{~km} 776 \mathrm{~m}$（6） $8848 \mathrm{~m}=8 \mathrm{~km} 848 \mathrm{~m}$
（1） $3 \mathrm{~km} 900 \mathrm{~m}=3900 \mathrm{~m}$
（8） $5 \mathrm{~km} \mathrm{350} \mathrm{m}=5350 \mathrm{~m}$
（9） $7 \mathrm{~km} 40 \mathrm{~m}=7040 \mathrm{~m}$
（10） $4 \mathrm{~km} 24 \mathrm{~m}=4024 \mathrm{~m}$
（11） $6 \mathrm{~km} 5 \mathrm{~m}=6005 \mathrm{~m}$
（12） $1 \mathrm{~km} 2 \mathrm{~m}=1002 \mathrm{~m}$
（13） $9 \mathrm{~km} 175 \mathrm{~m}=9175 \mathrm{~m}$
（14） $10 \mathrm{~km}=10000 \mathrm{~m}$


Fill in the $\square$ with the appropriate unit of length．

（4）The length of a step．
（5）The distance walking in an hour．
（6）The length of a pen．
（7）The width of a staple．



1 Read the lengths of the $\$$ on the tape measure below．

（2）Between the house and the school．
Direct distance is $500 \mathrm{~m} \quad$ Travel distance is 750 m
3 Convert the lengths to $\mathrm{m}, \mathrm{km} / \mathrm{km}$ and m ．

（1） $1 \mathrm{~km}=1000 \mathrm{~m}$
（2） $3000 \mathrm{~m}=3 \mathrm{~km}$
（3） $1 \mathrm{~km} \mathrm{500m}=1500 \mathrm{~m}$
（4） $5895 \mathrm{~m}=5 \mathrm{~km} 895 \mathrm{~m}$
4 Fill in the $\square$ with the appropriate unit of length．
（1）The travelling distance of a hiking trail．

mm

## Page $46 \cdot 47$


－Example 1 The table below summarizes the results of a class survey to find the best three favorite sweets which teacher will give it as a prize．Find the number of people who voted by using tally marks

| Chocolate | Chocolate | Candy | Chocolate |
| :--- | :--- | :--- | :--- |
| Gum | Candy | Gum | Gum |
| Candy | Chocolate | Candy | Ice cream |
| Gum | Chocolate | Biscuits | Candy |
| Chocolate | Gum | Chocolate | Pudding |

1 The table below summarizes the results of a class survey to find the best three favorite colours to buy color paper for an art class．Find the number of people who were surveyed by using tally marks．

| Orange | Orange | Blue | Blue | Brown |
| :---: | :---: | :---: | :---: | :---: |
| Blue | Orange | Red | Orange | Red |
| Red | Green | Blue | Red |  |
| Blue | Blue | Orange | Red |  |
| Blue | Orange | Purple | Orange |  |
| Red | HHt |  |  |  |
| Blue | HH1／ |  |  |  |
| Orange | HH1／l |  |  |  |
| Green | ／ |  |  |  |
| Purple | ／ |  |  |  |
| Brown |  |  |  |  |

Example 2 Convert the tally in Example I into numerals and
sort out the numbers in the table below．

| Favorite <br> sweets | Chocolate | Candy | Gum | Other |
| :--- | :---: | :---: | :---: | :---: |
| Number of <br> people | 7 | 5 | 5 | 3 | | Sort out in descending order（from many to few）from the |
| :--- |
| left to see what the best is． |
| Small numbers of votes comparing to the best three items |
| are summed up as＂Other＂．Put＂Other＂last． |

How many votes were there collected in total？

2 Convert the tally in Problem I into numerals and sort out the numbers in the table below．Small numbers of votes comparing to the best three items are summed up as＂Other＂and pu ＂Other＂last．

| Favorite <br> colors | Blue | Orange | Red | Other | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number of <br> people | 7 | 7 | 5 | 3 | 22 |

people
3 The tally shows the result of a class survey on the best three favorite drinks into numerals．Sort out the numbers in the table below．Small numbers of votes comparing to the best three items are summed up as＂Other＂and put＂Other last．

|  | Water | HH1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Juice | ／1／1／ll |  |  |  |
|  | Tea | ／／ |  |  |  |
|  | Soda | HHt HHF |  |  |  |
|  | Coffee | ／／ |  |  |  |
|  | Milk | ／／ |  |  |  |
| Favorite drinks | Soda | Juice | Water | Other | Total |
| Number of people | 10 | 8 | 6 | 6 | 30 |



1 A teacher created the graph by surveying her classmates about their favorite subjects to think of organizing extra classes． Favorite subjects


How many people like math class？
2 What is the difference between the number of language and social study like？ $\qquad$ 7 peo


2 A girl created the bar graph by tallying the number of books her classmates borrowed from the school library over four months to decide when she will reorganize books in the library． （Number Books borrowed in four months


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3 In the bar graph below，how many units does one mark on the scale represent？how many units are shown in the bar？




4 Construct the bar graph by using the table below．
Vehicles that passed in front of school Vehicles that passed in front of from 9：00 a．m．to 9：30 a．m．

| Vehicles that passed in front of |
| :---: | :---: | :---: | :---: | :---: |
| school from $9: 00$ a．m．to $9: 30$ a．m． |.


| Kind | Number of vehicles <br> （Vehicles） |
| :--- | ---: |
| Bike | 12 |
| Car | 5 |
| Bus | 2 |

onary shop for 5 The tables below show the total sales for a stationary shop for March，April，and May．Fill in the blanks to make the
table．

| Sales for March |  | Sales for April |  | Sales for May |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Type of item | Number of Pieces | Type of item | Number of Pieces | Type of item | Number of Pieces |
| Pen | 18 | Pen | 19 | Pen | 18 |
| Notebook | 16 | Notebook | 16 | Notebook | 17 |
| Other | 12 | Other | 8 | Other | 10 |
| Total | 46 | Total | 43 | Total | 45 |


| Type $\quad$ Month | March | April | May | Total |
| :--- | ---: | ---: | ---: | ---: |
| Pen | 18 | 19 | 18 | 55 |
| Notebook | 16 | 16 | 17 | 49 |
| Other | 12 | 8 | 10 | 30 |
| Total | 46 | 43 | 45 | 134 |



Answer the following questions．
（1）There are 2 I flowers．If we give 5 flowers to each person，how many people can get flowers？

| Math |  |  |
| :--- | :--- | :--- |
| sentence | $21 \div 5=4$ | R । |
|  |  |  | Answer 4 people can get flowers and 1 flower will be left．

（2）There are 31 biscuits．If we give 6 biscuits to each child，how many children can get biscuits？

（3）There is a ribbon that is 60 cm long．We need pieces of ribbon that are 7 cm long each．How many pieces of ribbon can we get？ $\begin{aligned} & \text { Math } \\ & \text { sentence }\end{aligned} \quad 60 \div 7=8 \quad$ R4 Answer We can get 8 pieces of ribbon and 4 cm of ribbon will be left．


## Answer the following questions．

（1）There are 14 pieces of candy．If we divide them evenly among 4 children，how many pieces of candy will each child get？
$\begin{aligned} & \text { Math } \\ & \text { sentence }\end{aligned} 14 \div 4=3 \quad$ R 2
Answer Each child can get 3 pieces of candy and 2 pieces will be left．
（2）There are 23 pencils．If 5 students divide them evenly，how many pencils will each student get？

（3）There are 40 lemons．If we divide them evenly among 7 people， how many lemons will each person get？
$\begin{aligned} & \text { Math } \\ & \text { sentence } \\ & \begin{array}{ll}40 & 40 \\ \text { Answer } & \text { R } 5 \\ \text { Anch people can get } & 5 \\ \text { lemons and } & 5\end{array} \\ & \end{aligned}$ lemons will be left．


Calculate the following problems and check the answer by writing the numbers in the $\square$
（1） $33 \div 4=8$（2）
$15 \div 9=$Check the answer
$4 \times 8+$＝ 33 check the answer $14 \div 3=4 \mathrm{R} 2$（c） － $6=15$

3 Check the answer $3 \times 4+2$ $2=14$ $24 \div 9=2 \mathrm{R} 6$ （3） $51 \div 8=6 \mathrm{R} 3$（6） Check the answer | Check |
| :---: |
| 8 |$3 \times 6+3=51$

－Look at（2，©）and（6）The dividends are＂ 15 ，＂＂ 24 ，＂and＂ 33 ，＂respectively． If the dividends will be＂ 42 ＂and＂ 51 ，＂how about the answers？


Example There are 26 biscuits．We are going to divide the biscuits so each person can get 6

Answer 4 people can get biscuits and 2 biscuits will be left．

## Answer the following questions．

（1）There are 30 donuts．We are going to divide the donuts so each

0000000000 0000000000 0000000000 child can get 4 donuts．How many children can get donuts and how many donuts will be left？ $\begin{array}{lll}\begin{array}{l}\text { Math } \\ \text { sentence }\end{array} 30 \div 4=7 & \text { R2 } \\ \end{array}$
Answer
7 children can get donuts and 2 donuts will be left
2 We are dividing 32 chocolates among 9 people evenly．How many chocolates will each person get and how many chocolates how many chocolates will be left？
$\square$
sentence $32 \div 9=3 \quad$ R 5

Answer Each person can get 3 chocolates and 5 chocolates will be left．
3 There are 45 sheets of coloured paper．There are 8 students and each student will receive 5 sheets each．Will there be enough coloured paper？


Answer There are enough sheets of coloured paper．


Answer the following questions．
（1）There are 30 balls．We are going to put all the balls in boxes， 4 balls per box．How many boxes do we need？


2 There are 43 children．Five children are going to sit on one bench．How many benches are needed so all the children can sit on benches？

（3）There is a 78 page book．If I read 8 pages in one day，how many days will it take me to finish reading this book？



Answer the following questions．
（1）There are 47 buttons．We need 7 buttons to make one shirt． How many shirts can we make in total？


2 We are making fresh orange juice．There are 26 oranges．We need 4 oranges to make a glass of juice．How many glasses of orange juice can we make？


3 There is a bookshelf that is 28 cm wide．We want to put books that 3 cm wide each on the shalf．How many of these books can we put on the bookshelf？


Answer 9 books

## Page 62－63

| $\square-\eta$ | Division with Remainders |
| :---: | :---: |

－Example Divide the numbers in the following table by 3．Put a for divisible numbers，a $\square$ for numbers with R ।， and a $\triangle$ for numbers with $R 2$ ．


1 Divide the numbers in the following table by 2．Put a $\bigcirc$ for divisible numbers and $a \square$ for numbers with RI．


2 Divide the numbers in the following table by 4．Put a $\bigcirc$ for divisible numbers，a $\square$ for numbers with RI，a $\triangle$ for numbers with R2 and a X for numbers with R3．



The following tables show the remainders．Write the numbers in the blanks．
（1）

|  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\div 3$ | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 |
| $R$ | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 0 |
|  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| $\div 4$ | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| $R$ | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 0 | 1 |
|  | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| $\div 5$ | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| $R$ | 0 | 1 | 2 | 3 | 4 | 0 | 1 | 2 | 3 | 4 |
|  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| $\div 6$ | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| $R$ | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | 3 |
|  | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| $\div 7$ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| $R$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 | 1 | 2 |

## Page $64 \cdot 65$



1 Calculate the following problems and check the answer by writing the numbers in the $\square$
$25 \div 6=4$
$R 12$
$18 \div 7=2$

| Check the answer |
| :--- |
| $6 \times 4+$ |

Check the answer
（3） $35 \div 8=8 \mathrm{R} 3$（4） $53 \div 8=6 \quad \mathrm{R} 5$ Check the answer $3=35$ $8 \times 6+5=53$

$16 \div 9=$ Check the answer
 $\square=37$ $9 \times 1+7=16$
（7） $11 \div 3=3 \mathrm{R} 2$（8） $25 \div 9=2 R 7$ Check the answer Check the answer $3 \times 3+2=11$ $9 \times 2+7=25$
（9） $47 \div 6=7 \mathrm{R} 5$（10） $34 \div 9=3 \mathrm{R} \div 7$
Check the answer

$9 \times 7+7=34$ | Check the answer |
| :--- |
| $6 \times 7+5=47$ |

－Look at the above division problems $\Theta, \bigcirc$ and（©．The dividends are＂16； Look at the above division problems $(6,8$ and（1）．The dividends are＂ 16 ，＂
＂＂25，＂and＂ 34 ，＂respectively．If the dividends will be＂43，＂＂ 52 ，＂＂ 61 ，＂＂ 70 ，＂ how about the answers！Can you find an interesting rule？

2 Explain the mistakes in the following calculations．Then calculate them correctly．

（2） $41 \div 6=7 \mathrm{RI}$
$41 \div 6=6 \quad R 5$
(4) $35 \div 7=4 \quad \mathrm{R} 7$
$35 \div 7=5$

3 Answer the following questions．
（1）There are 40 apples．We are going to divide the apples so each child can get 6 apples．How many children can get apples and how many apples will be left？


2 We are dividing 25 chocolates among 3 people evenly．How many chocolates will each person get and how many chocolates will be left？

（3）There is a 56 －page book．If I read 9 pages in one day，how many days will it take me to finish reading this book？


Page 66－67


Write the following numbers in the table and read it．
（1） 8175133
（＊Population of New York
Fight million，one hundred seventy－five thousand，one hundred thirty－three：
（2） 4481795
（＊Number of tickets sold in
the Tokyo Olympic，202।）
Four million，four hundred eighty－one thousand，seven hundred ninety－five．



Write the numbers in the $\square$ ．
（1） 1538762 is made of $\square$ one millions， 5 one hundred thousands， 3 ten thousands， 8 one thousands， 7 五 hundreds， 6 tens and 2 ones．
（＊Number of Mobile Phone production in Japan during March 2021）
（2） 1705685 is made of $\square$ one millions， 7 hundred thousands， 5 one thousands， 6 hundreds， 8 tens and 5 ones．
（＊Cumulative number of people infected with CoVID－19 by October 2021）
（3）The number made of 2 ten millions，I one millions， 8 hundred thousands， 9 ten thousands， 3 one thousands tens and 2 tens is 21893020 ．（＂Population of Beijing City，the capital of China，2019）
4．The number made of 2 ten millions， 5 one millions， 7 hundred thousands， 6 ten thousands， 8 one thousands， 6 hundreds， 7 tens and 7 ones is 25768677 ．（＊Car sales of China，2019）


Write the numbers in the $\square$ ．
（1）How many＂one thousands（ 1000 ＇s）＂make up the number 13000 ？ $13000<\begin{aligned} 10000 & \rightarrow 10 \text { one thousands } \\ 3000 & \rightarrow 3 \text { one thousands }\end{aligned}>13$ one thousands
2．How many＂one thousands（ 1000 ＇s）＂make up the number 25000？ $25000<\begin{aligned} 20000 & \rightarrow 20 \text { one thousands } \\ 5000 & \rightarrow 5 \text { one thousands }\end{aligned}>25$ one thousands
3 How many＂one thousands（ 1000 ＇s）＂make up the number 78000？ $78000<\begin{aligned} 70000 & \rightarrow 70 \text { one thousands } \\ 8000 & \rightarrow 8 \text { one thousands }\end{aligned}>78$ one thousands
4． 56 one thousands（ 1000 ＇s）make up the number 56000.
（5） 49 one thousands（ 1000 ＇s）make up the number 49000.
（6） 300 one thousands（ 1000 ＇s）make up the number 300000 ．


Write the numbers in the $\square$ ．
（1） $0 \begin{array}{llllllll} & 10000 & 20000 & 30000 & 40000 & 50000 & 60000 & 70000\end{array}$

（2）

（3）

（4）

©

©


## Page 70•71



Calculate the following and write the appropriate symbol，$=,>$ ，or $<$ in the $\square$ ．

$$
\begin{aligned}
& \text { (1) } 40000+30000<80000 \text { (2) } 10000+60000 \square 70000 \\
& \text { (3) } 20000+30000 \square 60000 \text { (4) } 50000+80000 \square \mid 20000 \\
& \text { (5) } 60000-40000 \square 10000 \text { (6) } 70000-50000 \square 20000 \\
& \text { (1) } 90000-10000 \square 80000 \text { (8 } 40000-30000<70000 \\
& \text { (2) } 28000=20000+8000 \text { (10) } 36000<30000+60000 \\
& \text { (11) } 14000 \square 20000-4000 \text { (12) } 56000 \square 60000-3000 \\
& \text { (13) } 45000 \square 50000-6000 \text { (14) } 72000 \square 80000-8000 \\
& \text { (15) } 7 \text { million }=5 \text { million }+2 \text { million } \\
& \text { (16) } 15 \text { million }-8 \text { million } \square 6 \text { million }
\end{aligned}
$$



1 What can we say about the number 760000 ？ Write the appropriate numbers in the $\square$
（1）It is made up of 700000 and 60000 added together．
（2）It is 40000 less than 800000
（3）It is made of 76 10000＇s．
2 What can we say about the number 380000 ？ Fill in the $\square$ with appropriate numbers
（1）It is made up of 300000 and 80000 added together．
（2）It is 20000 less than 400000 ．
（3）It is made up 38
10000＇s．
3 What can we say about the number 12 million（ 12000000 ）？ Fill in the $\square$ with appropriate numbers．
（1）It is made up of 10 million and 2 million added together．
（2）It is 8 million less than 20 million．
（3）It is made up 12 one millions


1 What are the numbers that are 10 times the following numbers？

| （1） 50 | 500 |
| :--- | :--- | :--- |
| （4） 420 | 4200 |


| （2） 79 | 790 |
| :--- | :--- | :--- |
| （5） 632 | 6320 |


| （3） 38 | 380 |
| :--- | :--- |
| （6） 980 | 9800 |
|  |  |



2 What are the numbers that are 100 times the following numbers？

| （1） 27 | 2700 |
| :--- | :--- |
| （4） 785 | 78500 |


| （2） 90 | 9000 |
| :--- | :--- |
| （3） 6000 | 600000 |


| （3） | 100 |
| :--- | :--- |
| （6） 10000 | 100000 |



1 When the following numbers are divided by 10 ，what do you get？

| （1） | 300 | 30 |
| :--- | :--- | :---: |
| （4） 80 | 8 |  |


| （2） 400 | 40 |
| :--- | :--- | :--- |
| （5） 3000 | 300 |


| （3） | 250 | 25 |
| :--- | :--- | :---: |
| （6） | 10000 | 1000 |


| －Example 2 There is the＂Hundred Million Place＂above the＂Ten |  |
| :--- | :--- | :--- |
| Million Place．＂One hundred million is |  |
| the number that is 10 times as much as |  |
| ten million． |  |
|  | $00000000=10000000 \times 10$ |

2 Write the appropriate numbers in the
（1）One hundred million is the number 10 times as much as ten million．
（2）One hundred million is made up of 10 ten millions．


1 Write the appropriate numbers in the $\square$
（1）The digit in the hundred thousands place of 5285194 is 2 ， and digit in the ten thousands place is 8 ．
（2）The digit in the one million place of $\mid 3729054$ is 3 ，and the digit in the hundred thousands place is 7 ． Focus on each
（3． 4173968 is made of 4 one millions，$\square$ hundred $\begin{gathered}\text { individual number．} \\ \text { courdis be，there }\end{gathered}$ thousands， 7 ten thousands， 3 one thousands， 9 hundreds， 6 tens and 8 ones．
（4） 2603040 is made of 2 one millions， 6 hundred thousands， 3 thousands and 4 tens．
（5）The number made of 4 ten millions， 7 one millions，I ten thousands， 2 one thousands， 5 tens and 8 ones is 47012058
（6）The number made of 3 ten millions， 5 hundred thousands， 8 ten thousands and 9 ones is 30508009 ．

2 Write the numbers in the $\square$
（1） 78 one thousands（ 1000 ＇s）make up the number 78000 ．
（2） 34 one thousands（ 1000 ＇s）make up the number 34000 ．
（3） 250 one thousands（ 1000 ＇s）make up the number 250000 ．

3 Write the numbers in the $\square$
（1） $\qquad$

2 2000030000 | 40000 | 50000 | 60000 | 70000 | 80000 | 90000 | 100000 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

（3）

$$
\stackrel{400000}{1}|\stackrel{400000}{500000}|
$$

4 Calculate the following and write the appropriate symbol，＝， $>$ ，or $<$ in the $\square$ ．
（1） $20000+40000=60000$（2） $50000+50000>10000$
（3） $60000-30000>50000$（4） $50000-3000>20000$
（5） 5 million +2 million $=7$ million
5 What can we say about the number 460000？Write the appropriate numbers in the $\square$ ．
（1）It is made up of 400000 and 60000 added together．
（2）It is 40000 less than 500000 ．
（3）It is made of 46 10000＇s．
6 What are the numbers that are 10 times the following numbers？
（1） $35 \quad 350$
（2） 6706700
（3） $893 \quad 8930$

7 When the following numbers are divided by 10 ，what do you get？
（1） $500 \quad 50$
（2） 6000600
（3） $10000 \quad 1000$


1 From the X ，measure with your ruler the following lengths and draw dots together．Turn the ruler and keep drawing dots．Then connect these dots．

－Instruction Circle
－A round shape consists of points that have the same distance from the middle point．This is called a circle
－The middle point is called the centre．
－A straight line from the centre to any point on the circle is called the radius



## －Erample 2 Fill in the $\square$ with words or numbers．

（1）A circle consists of points that have the same distance from the centre．
（2）A diameter is 2 times its radius．
（3）There are many diameters that pass through the center．
2 Fill in the $\square$ with words or numbers．
（1）The length of the diameter is twice the length of the radius．
（2）All the diameters go through the centre of the circle．
（3）The straight line from the centre to any point on the circle is called the radius．
（4）Diamete is the longest straight line drawn between two points on the surrounding circle．

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1 Find a diameter of the circle below．

$\qquad$


2 How many cm are the radius and diameter of the following



3 How many cm are the diameter and radius of the following circles？
（1）


Diameter is 6 cm ．
Radius is 3 cm ．
（3）How long is the length of $A B$ ？


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Page $84 \cdot 85$


1 Using a compass，let＇s make a pattern by tracing over the



A boy is playing game．Find the answer using the following hints and a compass．
The key is 6 cm from the chest， 9 cm from the sofa，and 7 cm from the table on the map below．


## Page $86 \cdot 87$



Example 1 Look at the following objects from directly above or from the side．What kind of shapes do you see？ Match the objects to the shapes they make．


1 Look at the following objects from directly above or from the side．What kind of shapes do you see？Match the objects to the

$\square$ Instruction Sphere
－An object that looks like a circle from any direction is called a sphere．
－When a sphere is cut in half，the centre， radius，and diameter of the cross－ section are the same as the cen
radius，and diameter of the sphere．


2 The balls are placed inside a box in rows as shown below．
14 cm 91100
101101
（1）How many cm is the diameter of one ball？


The diameter is 7 cm ．
2 Find the length of the box．
The length is 21 cm ．
3 Find the total length around the bottom of the box
The total length is 70 cm ．
4）If you can put balls into the following container．Find the height of container．


The height is 14 cm


1 Fill in the $\square$ with words or numbers．
（1）A circle consists of points that have the same distance from the centre．
（2） A diameter is twice its radius．
2 How many cm are the radius and diameter of the following circles？
（1）If a circle has a 4 cm radius，the diameter is 8 cm ．
（2）If a circle has a 24 cm diameter，the radius is 12 cm
3 How many cm are the diameter and radius of the following

2


Radius of the larger circle is \(\begin{aligned} \& 6 <br>

\& \mathrm{~cm}\end{aligned}\) ．The length of $A B$ is |  |
| :---: |
| cm | Diameter of the smaller circle is 3 cm ．The length of $A B C D$ is 16 cm ．

4 Draw a circle with the following length of radius using a compass．
（1）With a 3 cm radius
（2）With a 9 cm diameter


5 Mark the straight lines into the following lengths from the point
（1）Lengths of 4 cm ．


2 Length of 3 cm ．


Compare the lengths of the lines．Which of the following three straight lines below is the longest？
（1）


7 The balls are placed inside a box in rows as shown below

（1）How many cm is the diameter of a ball？
The diameter is 7 cm ．
2 Find the total length around the bottom of the box．
The total length is 84 cm ．


Calculate the following multiplication problems by using the algorithm．



（4） $24 \times 2$（5） $32 \times 3$（6） $12 \times 4$
（1） $21 \times 3$
$\begin{array}{llll}\text {（8）} 33 \times 3 & 42 \times 2 & \text {（10）} 23 \times 3 & \text {（11）} 34 \times 2\end{array}$

| 4 | 48 | 5 | 96 | 6 | 48 | （1） | 63 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 8 | 99 | 9 | 84 | （10 | 69 | （11） | 68 |



Calculate the following multiplication problems by using the algorithm





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Calculate the following multiplication problems by using the algorithm．



| （5） | 159 | 6 | 184 | $(1)$ | 164 | 8 | 108 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 128 | 10 | 208 | $(11$ | 186 | $(12$ | 248 |



Calculate the following multiplication problems by using the algorithm．

| （1）Heses Tens Ones |  | （2）Hosedens Tones |  | （3）Tumst Ten Ones |  | （4）Tustans Tones |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 64 | $\times$ | 76 3 |  | 47 | $\times$ | 99 |
|  | 192 |  | 228 |  | 188 |  | $8{ }^{8}$ |
| 5 | $55 \times 6$ | 6 | $38 \times 5$ |  | $42 \times 8$ |  | $68 \times$ |
| （2） | $27 \times 6$ | （1） | $78 \times$ | （11） | $93 \times 5$ |  | $37 \times 8$ |
| （5） | 330 | 6 | 90 | （1） | 336 | 8 | 476 |
| （9） | 162 | （1） | 390 | （1） | 465 | （12） | 296 |

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Calculate the following multiplication problems by using the algorithm．



Calculate the following multiplication problems by using the algorithm
（5） $45 \times 9$（6） $69 \times 3$（7） $75 \times 4$（8） $67 \times 9$
$\begin{array}{llll}\text {（9）} 67 \times 3 & \text {（10）} 87 \times 7 & \text {（11）} 67 \times 6 & \text {（12）} 77 \times 4\end{array}$

| （5） | 405 | （6） | 207 | （7） | 300 | 8 | 603 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| （9） | 201 | （10 | 609 | （11 | 402 | （12 | 308 |



Calculate the following multiplication problems by using the algorithm．
 $\times 3 \times 24 \times 2+36$
（5） $244 \times 2$（6） $123 \times 3$（7） $321 \times 2$（8） $221 \times 4$
（9） $332 \times 3$（10） $143 \times 2$（11）$|3| \times 2$（12） $2 \mid 3 \times 3$

| （5） | 488 | 6 | 369 | 7 | 642 | 8 | 884 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| （9） | 996 | © | 286 | （11） | 262 | （12） | 639 |



Calculate the following multiplication problems by using the algorithm


Page 98． 99


Calculate the following multiplication problems by using the algorithm．

|  | Hatestens Ones | （2）${ }^{\text {cmasasans }}$ Tenses |  |  |  | Amotat Tens $0^{\circ}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $248$ | $\times$ | 173 |  |  |  |  | $17$ | 8 4 |
|  | 744 |  | 865 |  | 80 |  |  |  | 2 |
| （5） | $298 \times$ | 6 | $144 \times 6$ |  | $153 \times$ |  |  | 297 |  |
| （9） | $134 \times 7$ | （1） | $234 \times$ |  | 164 |  | （1） | 289 |  |
| （5） | 596 | （6） | 864 | 1 | 765 | 8 |  | 89 |  |
| 9 | 938 | （10） | 936 | （1） | 984 | （1） |  | 578 |  |




Calculate the following multiplication problems by using the algorithm．

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 63 | $\begin{array}{ll\|} 3 & 1 \\ & 3 \end{array}$ |  | 74 | 3 2 $\times$ | 5 | $2 \begin{array}{r}23 \\ 3\end{array}$ |
|  | 89 | 93 |  | 48 | 6 |  | 69 |
| 4 | $621 \times$ | 5 |  |  | $822 \times$ |  | $412 \times$ |
| 8 | $711 \times$ | 9 | 542 |  | $923 \times$ |  | 723 |
| 4 | 2484 | （5） | 628 | 6 | 3288 | （1） | 1648 |
| 8 | 4977 | （9） | 1084 | （1） | 2769 | （1） | 2169 |

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Calculate the following multiplication problems by using the algorithm．

|  | Ematmes Te | Eens Ones |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 62 | 27 8 | $\times$ | $75$ | $5$ | $2 \times$ |  | $4$ | 6 |  |
|  | 50 | 6 | 5 | 26 | 6 | 4 | 3 |  | 0 | 4 |
| （4） | $378 \times 4$ | 5 | $472 \times 7$ |  | 6 | $237 \times 9$ |  | （ |  | $\times 6$ |
| 8 | $763 \times 5$ | （2） | $286 \times 8$ |  | （1） | $589 \times 4$ |  | （1） |  | $\times 7$ |
| 4 | 1512 | （3） | 3304 | 6 |  | 2133 | 1 |  | 3402 |  |
| 8 | 3815 | （2） | 2288 | （10） |  | 2356 | （1） |  | 2422 |  |




Calculate the following multiplication problems by using the algorithm．

|  |  | thates 1 | Tens |  |  |  |  |  |  |  | \％es lumest Tens Ones |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 3 |  |  | 6 | $0$ | 8 7 |  |  | 7 |  |  |
|  | 3 | 2 | 2 | 4 |  | 4 | 2 | 5 | 6 |  |  |  |  |  |
| （4） | 207 |  |  | 5 |  |  |  |  |  |  |  |  |  |  |
| 8 |  | $\times 8$ |  | 2 |  |  |  |  |  |  |  |  |  |  |
| 4 |  | 1035 |  | 5 | 23 | 32 |  | 6 | 455 |  | （1） |  |  | 228 |
| 8 |  | 1672 |  | （2） | 544 | 48 |  | （1） | 286 |  | 1 |  |  | 840 |

100

| $10-13$ | Multiplication Algorithm－1 |
| :--- | :--- |


| Exemple $\begin{array}{l}\text { Devise a way to calculate the following multiplication } \\ \text { problem and then calculate it．} \\ 75 \times 5 \times 2=75 \times(5 \times 2)=75 \times 10=750 \\ \text { If you calculate } 5 \times 2 \text { first，it becomes } 10 \text { ．} \\ \text { Then it is easier to calculate } 75 \times 10 \text { ．} \\ \begin{array}{l}\text { When you multiply } 3 \text { numbers，whether you start by } \\ \text { calculating the first } 2 \text { numbers or the last } 2 \text { numbers，the } \\ \text { answer is the same．}\end{array}\end{array} . \begin{array}{l}\text { ne }\end{array}$ |
| :--- |

Devise a way to calculate the following multiplication problems and then calculate them．



1 There are 3 ropes．The length of rope $A$ is 80 cm ．The length of rope $B$ is 3 times as long as rope $A$ ．The length of rope $C$ is 2 times as long as rope $B$ ．How long are ropes $B$ and $C$ ？

The length of rope B： $80 \times 3=240$
The length of rope C： $240 \times 2=480$
Answer Rope B 240 cm Rope C 480 cm
2 There are 3 boxes with oranges．There are 20 oranges in box A．The number of oranges in box $B$ is 2 times as many as box A．The number of oranges in box C is 3 times as many as box B．How many oranges are there in boxes B and C ？

$$
\text { Oranges in box B: } 20 \times 2=40
$$

Oranges in box C： $40 \times 3=120$
Answer 40 oranges in box $\mathrm{B}, 120$ oranges in box C

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1 Calculate these multiplication problems by using the algorithm．
（1） $41 \times 2$
（2） $12 \times 3$
（3） $21 \times 2$

|  | 2 | 1 |
| ---: | ---: | ---: |
| $\times$ |  | 2 |
|  | 4 | 2 |

（4） $25 \times 3$

$74 \times 2$
8 $93 \times 3$

|  |  | 9 | 3 |
| :--- | :--- | :--- | :--- |
| $\times$ |  |  | 3 |
|  | 2 | 7 | 9 |

（6） $38 \times 2$（6） $16 \times 4$（1） $74 \times 2$

| 3 | 8 |
| ---: | ---: |
| $\times \quad 2$ |  |
| 76 |  |


|  | 1 |
| ---: | ---: |
| $\times$ | 4 |
|  | 64 |


|  |  | 7 | 4 |
| :---: | :---: | :---: | :---: |
| $\times$ |  | 2 |  |
|  |  | 4 | 8 |

2 Calculate these multiplication problems by using the algorithm．
$\begin{array}{llll}\text {（1）} 56 \times 6 & \text {（2）} 39 \times 5 & \text {（3）} 69 \times 8 & \text {（4）} 78 \times 8\end{array}$

|  |  | 5 | 6 |  |  |  | 9 |  |  | 6 | 9 |  |  | 7 | 8 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  | 6 | $\times$ |  |  | 5 | $\times$ |  |  | 8 | $\times$ |  |  |  | 8 |
|  | 3 | 3 | 6 |  |  | 9 | 5 |  | 5 | 5 | 2 |  | 6 | 2 |  | 4 |


| （5） $68 \times 3$ |  |  |  | （6） $26 \times 4$ |  |  |  | （7） $36 \times 3$ |  |  |  | （8） $25 \times 4$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 6 | 8 |  |  | 2 | 6 |  |  | 3 | 6 |  |  | 2 |  | 5 |
| $\times$ |  |  | 3 | $\times$ |  |  | 4 | $\times$ |  |  | 3 | $\times$ |  |  |  | 4 |
|  | 2 | 0 | 4 |  |  | 0 | 4 |  |  | 0 | 8 |  | ｜ | 0 | 0 | 0 |

3 Calculate these multiplication problems by using the algorithm

$$
\begin{array}{|l|l|}
\hline 25 \\
\hline
\end{array}
$$

| $243 \times 2$ |
| :--- |
| 2443 |
| 242 |
| $\times \quad 486$ |

$$
\text { (2) } 261 \times
$$

$$
\text { (3) } 231 \times 4
$$

$$
\begin{array}{|r|r|r|}
\hline 23 & 1 \\
\times & & 4 \\
\hline 9 & 24 \\
\hline
\end{array}
$$

$$
\text { (1) } 142 \times 6
$$

$$
\begin{array}{|l|l|l}
\hline & 2 & 6 \\
\hline \times & & 3 \\
\hline & 7 & 8 \\
\hline
\end{array}
$$

|  | 1 | 4 |
| :--- | :--- | :--- |
|  | 2 |  |
|  |  | 6 |
|  | 5 | 2 |


| $17 \times 5$ |
| :--- |
|    <br>  17 7 <br> $\times$  5 <br>  8 6 |

（C） $753 \times 7$
（1） $309 \times 8$

4 Devise a way to calculate the following multiplication problems and then calculate them．
（1） $90 \times 4 \times 2=90 \times(4 \times 2)=90 \times 8=720$
（2） $60 \times 3 \times 3=60 \times(3 \times 3)=60 \times 9=540$
（3） $253 \times 2 \times 5=253 \times(2 \times 5)=253 \times 10=2530$
（4） $87 \times 5 \times 2=87 \times(5 \times 2)=87 \times 10=870$
5 There are 3 wooden sticks．The length of stick $A$ is 60 cm ．The length of stick $B$ is 3 times as long as stick $A$ ．The length of stick C is 2 times as long as stick B ．How long are sticks B and C ？

The length of stick B： $60 \times 3=180$
The length of stick C： $180 \times 2=360$
Answer stick B 180 cm stick C 360 cm

## Page 106－107



## Page 108－109



## How many kg and g does each scale show？

（1）


2



Convert the weights to g or kg or kg and $\mathrm{g} \cdot \square \square \square_{\mathrm{kg}} \square \square \square_{\mathrm{g}}$
（1） $1000 \mathrm{~g}=\square \mathrm{kg}$
（2） $9000 \mathrm{~g}=9 \mathrm{~kg}$
（3） $1500 \mathrm{~g}=\square \mathrm{kg} 500 \mathrm{~g}$
（4） $3260 \mathrm{~g}=3 \mathrm{~kg} 260 \mathrm{~g}$
（5） $4220 \mathrm{~g}=4 \mathrm{~kg} 220 \mathrm{~g}$
（6） $5300 \mathrm{~g}=5 \mathrm{~kg} 300 \mathrm{~g}$
（1） $1 \mathrm{~kg} \mathrm{700g}=1700 \mathrm{~g}$
（8） $3 \mathrm{~kg} 400 \mathrm{~g}=3400 \mathrm{~g}$
（9） $2 \mathrm{~kg} 78 \mathrm{~g}=2078 \mathrm{~g}$
（1） $1 \mathrm{~kg} 25 \mathrm{~g}=1025 \mathrm{~g}$
（11） $8 \mathrm{~kg} \mathrm{3g}=8003 \mathrm{~g}$
（12） $9 \mathrm{~kg} 5 \mathrm{~g}=9005 \mathrm{~g}$
（13） $7 \mathrm{~kg} 275 \mathrm{~g}=7275 \mathrm{~g}$
（14） $10 \mathrm{~kg}=10000 \mathrm{~g}$

## Page $110 \cdot 111$



## Page 112 • 113



1 What is the highest weight this scale and measure？What is the lowest？Fill in the table below．


2 Read the scales．
（1）

900 g
（2）

（3）

（c）


3 Draw the needle to show the following weights on the scale．
（1） 80 g
（2） 1760 g


4 Convert the weights to g or kg or kg and g
（1） $1000 \mathrm{~g}=\square \mathrm{kg}$（2） $1000 \mathrm{~kg}=\square \mathrm{t}$
（3） $3790 \mathrm{~g}=3 \mathrm{~kg} 790 \mathrm{~g}$
（4） $2230 \mathrm{~kg}=2 \mathrm{t} 230 \mathrm{~kg}$
（5） $1 \mathrm{t} 450 \mathrm{~kg}=1450 \mathrm{~kg}$
（6） $5 \mathrm{~kg} 50 \mathrm{~g}=5050 \mathrm{~g}$


5 Complete the table below．

| Kinds of <br> Units | m | c | d |  | K |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Length | 1000 mm | 100 cm |  | 1 m |  |
| Capacity | 1000 mL |  | 10 dL | IL |  |
| Weight |  |  |  | 1000 g | Ikg |

6 Fill in the $\square$ with appropriate units of quantities．
（1）Weight of a truck．
（2）Height of a can．
（3）Amount of soda in a PET bottle．
4 Weight of $I L$ of bottled water．

（5）Length of a staple．


1 How many $\square$ is the length of the coloured part？How many metres is the coloured part？

（3）$\square$ ！$\square \rightarrow \square$
The length of the coloured part is
2 Colour the parts expressing the lengthe shown be $\frac{3}{8}$


Student A＇s answer is incorrect．
The coloured part is a $\frac{1}{4}$ of the whole．Now the whole is 2 m ， not I m．Therefore，the coloured part is $\frac{1}{4}$ of 2 m ，which equals to $\frac{1}{2} \mathrm{~m}$ ．The correct answer is $\frac{1}{2} \mathrm{~m}$ ．

3 How many metres is the coloured part？


## Page 116－117



1 How many measurement marks are shown in the picture？ Then answer how many litres of water there are．


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3．How many litres of water is there in the following containers？


Page 118－119


## Page 120－ 121



1 There is $\frac{1}{7} \mathrm{~L}$ of milk in a carton and $\frac{2}{7} \mathrm{~L}$ in another carton． How much milk is there altogether？


2 Calculate the following addition problems．
（1）$\frac{1}{5}+\frac{3}{5}=\frac{4}{5}$（2）$\frac{3}{7}+\frac{2}{7}=\frac{5}{7}$（3）$\frac{3}{9}+\frac{4}{9}=\frac{7}{9}$
（4）$\frac{1}{8}+\frac{2}{8}=\frac{3}{8}$（5）$\frac{2}{6}+\frac{3}{6}=\frac{5}{6}$（6）$\frac{2}{3}+\frac{1}{3}=\frac{3}{3}=1$


1 There is $\frac{4}{7} \mathrm{~L}$ of milk in a carton．When a girl drinks $\frac{1}{7} \mathrm{~L}$ of milk， how much milk will be left？


2 Calculate the following addition problems．
（1）$\frac{8}{9}-\frac{4}{9}=\frac{4}{9}$（2）$\frac{2}{3}-\frac{1}{3}=\frac{1}{3}$（3）$\frac{7}{8}-\frac{6}{8}=\frac{1}{8}$
（4）$\frac{4}{5}-\frac{2}{5}=\frac{2}{5}$（5）$\frac{5}{6}-\frac{4}{6}=\frac{1}{6}$（6）$\frac{6}{7}-\frac{3}{7}=\frac{3}{7}$

Page 122－123


1 There is I $L$ of milk in a carton．When a child drinks $\frac{1}{5} L$ of milk， how much milk will be left？

I $L$ is seven $\frac{1}{7}$
Therefore，$I \mathrm{~L}$ is the same as $\frac{7}{7} \mathrm{~L}$ ．
Math
Sentence
S
2 Calculate the following addition problems
（1） $1-\frac{3}{4}=\frac{1}{4}$
（2） $1-\frac{1}{3}=\frac{2}{3}$
（3） $1-\frac{5}{8}=\frac{3}{8}$
（4） $1-\frac{2}{9}=\frac{7}{9}$
（5）$-\frac{3}{7}=\frac{4}{7}$
（6） $1-\frac{3}{5}=\frac{2}{5}$
In this case，$I L$ is nine $\frac{1}{9} L$ ．Therefore，$I L$ is the same as $\frac{9}{9} L$ ．


1 Use fractions to express different lengths and different amounts of water as shown by the coloured parts．


2．Write fractions in the $\square$


3 Which is greater？Write the appropriate sign（ $<$ or $\rangle$ ）in the $\square$ ．
（1）$\frac{2}{5} \mathrm{~m} \longrightarrow<\frac{3}{5} \mathrm{~m}$（2）$\frac{5}{8} \mathrm{~m} \square \frac{3}{8} \mathrm{~m}$（3）$\frac{6}{7} \mathrm{~m} \square<$ ।
4 Calculate the following
（1）$\frac{1}{5}+\frac{1}{5}=\frac{2}{5}$（2）$\frac{2}{7}+\frac{3}{7}=\frac{5}{7}$（3）$\frac{2}{4}+\frac{1}{4}=\frac{3}{4}$
（4）$\frac{4}{8}-\frac{3}{8}=\frac{1}{8}$（5）$\frac{4}{9}-\frac{2}{9}=\frac{2}{9}$（6）$\frac{5}{6}-\frac{2}{6}=\frac{3}{6}$
（7） $1-\frac{1}{3}=\frac{2}{3}$
（8） $\mathrm{I}-\frac{3}{5}=\frac{2}{5}$
（9） $1-\frac{5}{6}=\frac{1}{6}$

## Page 124－125

1 Sort the following triangles according to the length of their sides．



Example 2 Look at the following triangles．


2 Look at the following triangles．

（1）Which of these triangles are isosceles triangles？

2 Which of these triangles are equilateral triangles？

Page 126－127



1 Draw isosceles triangles whose sides are the following lengths．
（1） $2 \mathrm{~cm}, 5 \mathrm{~cm}$ and 5 cm
（2） $5 \mathrm{~cm}, 4 \mathrm{~cm}$ and 4 cm


2 Draw equilateral triangles whose sides are the following lengths．
（1） 5 cm side


## Page 128•129



1 There is a triangle in the circle with a radius of 3 cm ．Point $O$ is the centre of the circle．

（3）What kind of triangle is this triangle？


2 There are two triangles in the circle with a radius of 6 cm ． Point O is the centre of the circle．
（1）Find the length of $O A$
（2）Find the length of $O B$ ．
（3）What kind of triangle is the triangle（1）？Isosceles triangle
（4）When the length of $C D$ is 6 cm ， what kind of triangle is the triangle



1 Fill in the $\square$ with the correct words．


2 Let＇s make designs by putting the following two types of triangles whose size are the same but the colour are different respectively．
（1）Equilateral triangl


－Example 2 Compare the size of angles below and list them from the largest to the smallest．


1 Which angle is larger？
（1）
2
 B

2 Compare the size of angles below and list them from the largest to the smallest．

$$
\angle A \quad \angle C \quad D \quad B, A, C, D
$$



1 Look at the size of the angles of the equilateral triangle．Which angles is larger？


2 Which angles are the same？
（1）

 2
2


How many equilateral triangles are there in total？ （1）
 10 triangles
（3）


16 triangles


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| $75-8$ | Triangles | Review |
| :--- | :--- | :--- |

1 Fill in the $\square$ with numbers．
（1）An isosceles triangle has 2 sides of the same length and 2 angles of the same size．
（2）An equilateral triangle has 3 sides of the same length and 3 angles of the same size．

2 Look at the following triangles．Measure the length of sides with a compass or a ruler to find the answers．


3 There are two triangles in the circle with 4 cm radius．Point O is the centre．
（1）What kind of triangle is triangle A？
（2）What kind of triangle is triangle $B$ ？

4 Compare the size of the angles below and list them from the largest to the smallest．


Page 134－135


Page 136－137

| 9／4－3 | Decimal Numbers How to Represent Decimal Numbers（3） |
| :---: | :---: |
| －Instruction Learn the units of length and capacity． |  |
| $1 \mathrm{~cm}=10 \mathrm{~mm}$ |  |
| $1 \mathrm{~L}=10 \mathrm{dL}$ |  |



Write the numbers in the $\square$ ．
（1） $2.3 \mathrm{~cm}=2 \mathrm{~cm} 3 \mathrm{~mm}$（2） $4.8 \mathrm{~cm}=4 \mathrm{~cm} 8 \mathrm{~mm}$
（3） $8.6 \mathrm{~cm}=8 \mathrm{~cm} \mathrm{~mm}$（4） $6.1 \mathrm{~cm}=6 \mathrm{~cm} / \mathrm{mm}$
（5） $7.4 \mathrm{~cm}=7 \mathrm{~cm} 4 \mathrm{~mm}$（6） $1.2 \mathrm{~L}=\square \mathrm{L} \square \mathrm{dL}$
（7） $3.9 \mathrm{~L}=3 \mathrm{~L} 9 \mathrm{dL}$（8） $5.7 \mathrm{~L}=5 \mathrm{~L} \square 7 \mathrm{dL}$
（9） $9.1 \mathrm{~L}=9 \mathrm{~L} \mid \mathrm{dL}$
（10） $2.5 \mathrm{~L}=2 \mathrm{~L} 5 \mathrm{dL}$


Write the numbers in the $\square$ ．
（1） 4.6 is made of 4 I＇s and 6 0．I＇s．
（2） 4.6 is made of 46 0．1＇s．
（3） 7.2 is made of seven（7）I＇s and two（2） 0.1 ＇s．
（4） 5.8 is made of fifty－eight（58） 0.1 ＇s．


Compare the following two numbers and write the appropriate sign （＜or $>$ ）in the $\square$
（1） $0.4<0.6$
（2） $0.7>0.2$
（3） $4.5 \square 6.1$
（4） $0.5<1.5$
（5） $3.4 \square 4.3$
（6） $7.1 \square 7.5$
（1） $1>0.9$
（8） $1.9 \square 2$
（9） $3 \square<3.1$
（10） $6 \square 2.1$
（11） $8 \square 8.2$
（12） $0 \square<0.5$
（13） $1.3 \square>0.3$
（14） $0.1 \square 0$
（15） $0 \square<$


Decimal numbers can be converted to fractions and fractions can be converted to decimal numbers．

For example， 0.6 is made of six（6） 0.1 ＇s．In other words，it is made of $\operatorname{six}(6) \frac{1}{10}$ ．So， 0.6 is $\frac{6}{10}$
$\frac{7}{10}$ is made of seven（7）$\frac{1}{10}$ ．In other words，it is made of
seven（7）0．I＇s．So，$\frac{7}{10}$ is 0.7 ．
Example Which numbers is greater， 0.4 or $\frac{3}{10}$ ？
0.4 is made of four（4） 0.1 ＇s $\left(\frac{1}{10}\right)$ ．So， 0.4 is $\frac{4}{10}$
$\frac{3}{10}$ is made of three（3）$\frac{1}{10}$（0．1＇s）．So，$\frac{3}{10}$ is 0.3 ．
Answer 0.4


Compare the following two numbers and write the appropriate sign （ $<$ or $>$ ）in the $\square$ ．
（1） $0.8>\frac{7}{10}$
（2） $0.5<\frac{6}{10}$
（3） $1.2>\frac{11}{10}$
（4）$\frac{14}{10} \ll 1.5$
（5）$\frac{23}{10} \square<2.4$
（6）$\frac{35}{10} \square 3.1$

## Page $140 \cdot 141$



1 A container has 0.4 L of milk and another container has 0.3 L of milk．How much milk is there altogether？
Math
Sentence $0.4+0.3=0.7$
Answer 0.7

2 Calculate the following addition problems．



1 A container has 0.9 L of milk and another container has 0.6 L of milk．How much milk is there altogether？
Math $0.9+0.6=1.5 \quad$ Answer 1.5 L
Sentence

2 Calculate the following addition problems．＂0，＂when the answer is＂I．0．＂
（1） $0.8+0.3=1.1$
（3） $0.9+0.6=1.5$
（5） $0.6+0.6=1.2$
（7） $0.7+0.5=1.2$
（9） $0.5+0.5=1.0$ or 1
（11） $1+0.9=1.9$
（2） $0.7+0.5$
（4） $0.4+0.7=1.1$ ．
（8） $0.2+0.8=1.0$ or 1
（10） $1+0.2=1.2$

There are 0.7 L of milk．A girl drank 0.4 L of it．How many litres of milk are left？

$$
\begin{array}{l|l|}
\begin{array}{l}
\text { Math } \\
\text { Sentence }
\end{array} 0.7-0.4=0.3 & \text { Answer } 0.3 \\
\hline
\end{array}
$$

2 Calculate the following subtraction problems．
（1） $0.5-0.2=0.3$
（3） $0.6-0.4=0.2$
（5） $0.8-0.1=0.7$
（7） $0.5-0.4=0.1$
（9） $0.6-0.3=0.3$
（II） $0.8-0.1=0.7$
（2） $0.7-0.2=0.5$
（4） $0.5-0.4=0.1$
（6） $0.4-0.3=0.1$
（8） $0.5-0.3=0.2$
（10） $0.9-0.8=0.1$
（12） $0.4-0.2=0.2$


1 There are 1.5 L of orange juice．My mother drank 0.6 L of it． How many litres of orange juice are left？


2 Calculate the following addition problems．

$$
\begin{aligned}
& \text { Once again, you do not } \\
& \text { have to write "0," when }
\end{aligned}
$$ the answer is＂I．＂．，＂when



Calculate the following addition problems by using the algorithm．



Calculate the following addition problems by using the algorithm． （1） $2.7+1.6$（2） $6.5+2.9$（3） $3.9+1.5$（4） $7.6+1.7$

|  |  | ． 7 |  |  | ． 5 |  | 3.9 |  |  | 7.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $+$ | 1 | ． 6 | ＋ |  | ． 9 | ＋ | 1.5 | $+$ |  | 1.7 |
|  |  | ． 3 |  |  | ． 4 |  | 5.4 |  |  |  |

（5） $8.9+0.6$（6） $0.8+7.4$（7） $0.7+0.5$（8） $2.9+3.3$ （9） $0.9+1.8$（10） $4.5+0.9$（II） $2.4+1.7$（12） $5.3+1.8$

| （5） | 9.5 | （6） | 8.2 | 1 | 1.2 | 8 | 6.2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| （9） | 2.7 | （10 | 5.4 | （11 | 4.1 | （12） | 7.1 |

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Calculate the following addition problems by using the algorithm． （1） $2.7+1.3$（2） $5.5+3.5$（3） $3.9+1.1$（4） $4.6+1.4$

|  |  | 2.7 |  | 5.5 |  | 3.9 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ＋ | 1.3 |  | ＋ 3.5 |  | ＋ 1 ． |  | $+$ | 4 |
|  |  | 4.0 |  | 9.0 |  | 5.0 |  |  | 6.0 |
| 5 |  | ＋ 0.0 .1 | （6） $0.8+4.2$ |  | （7） $0.7+0.3$ |  | （8） $0.2+1.8$ |  |  |
| （ |  | ＋+0.6 | （1） | $3.5+2.5$ | $5.6+2.4$ |  | （2） | 1.6 | ＋ 1.4 |
| When the answer is＂ 2.0 ，＂we can also write＂ 2 ＂as the answer． |  |  |  |  |  |  |  |  |  |
| （5） |  | 9.0 or 9 | （6） | 5.0 or 5 | （1） | 1.0 or I | （8） |  | or 2 |
| （9） |  | 1.0 or I | （1） | 6.0 or 6 | （1） | 8.0 or 8 | （12） |  | or 3 |



Calculate the following subtraction problems by using the algorithm．



Calculate the following subtraction problems by using the algorithm． （1） $4.2-1.8$ 2 $3.4-1.9$（3） $5.3-2.7$（4） $5.4-3.6$

Regarding the problems（8），（9），（10）and（1），don＇t forget to write＂ 0 ＂in the ones place．

| （5） | 2.9 | （6） | 1.8 | 1 | 1.9 | 8 | 0.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 9 | 0.8 | （10 | 0.9 | （11） | 0.2 | （12 | 2.6 |



Calculate the following subtraction problems by using the algorithm．



## Page 152•153



1 Calculate the following multiplication problems．
（1） $5 \times 50=250$（2） $4 \times 30=120$（3） $6 \times 60=360$
（4） $8 \times 40=320$（5） $9 \times 70=630$（6） $7 \times 20=140$
－Example 2 Calculate $12 \times 30$ ．

| $12 \times 3=36$ |
| :--- |
| 10 times $\downarrow$ |
| $12 \times 30=360$ |


| $\downarrow 10$ times |
| :--- |

$12 \times 30=360$ When the number in the
multiplier becomes 10 times
as much，the answer also
becomes 10 times as much．
This is the same as in
example $I$ ．
The answer for $12 \times 30$ is the same as 10 times as much as $12 \times 3$ ．Therefore，the answer is the same as placing a 0 to the right of 36 ．

2 Calculate the following multiplication problems．
（1） $12 \times 40=480 \quad$（2） $23 \times 20=460 \quad$（3） $32 \times 30=960$
（4） $26 \times 30=780$（5） $31 \times 40=1240$（6） $60 \times 30=1800$


Calculate the following multiplication problems by using the algorithm．


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Calculate the following multiplication problems by using the algorithm．


|  | $\begin{aligned} & 1 \\ & 3 \\ & \hline \end{aligned}$ |  |  |  |  | $4$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} 6 \\ 3 \\ \hline \end{array}$ |  | ＋ |  |  | $6 \sqrt{1+x+6)}$ |  |  | 9 8 |
|  | 45 | 5 |  | 33 |  | 6 |  |  | 2 |
| © | $24 \times 23$ | － | $47 \times 12$ | － |  | $26 \times 13$ |  |  | $23 \times$ |
| （8） | $25 \times 13$ | － | $27 \times 12$ | （1） |  | $39 \times 12$ |  |  | $19 \times$ |
| （1） | 552 | © | 564 | © |  | 338 | 0 |  | 782 |
| （8） | 325 | Q | 324 | （1） |  | 468 | （1） |  | 266 |



Calculate the following multiplication problems by using the algorithm．

| 1 $\times$ |  | Auntess Tens |  | （2） $\begin{array}{r} \\ \times\end{array}$ | tundes Tens |  | （3） $\begin{array}{r} \\ \times\end{array}$ | Henteses Tens Ones |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 7 | 3 4 |  | 2 | 9 3 |  | 3 2 | 8 2 |
|  | $+$ | $9$ | 2 | $+$ | $\begin{array}{r} 8 \\ 58 \end{array}$ | 7 | $+$ | 7 7 | 6 |
|  |  | 96 | 2 |  | 66 | 7 |  | 83 | 6 |
| （4） |  | $19 \times 34$ | （5） | $15 \times 36$ | 6 | $28 \times 32$ | （1） | $37 \times 2$ |  |
| 8 |  | $7 \times 44$ | （2） | $18 \times 35$ | （10） | $27 \times 33$ | （11） | $14 \times 5$ |  |
| （4） |  | 646 | （5） | 540 | （6） | 896 | （7） | 814 |  |
| 8 |  | 748 | （2） | 630 | （10） | 891 | （11） | 798 |  |

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Calculate the following multiplication problems by using the algorithm．



C－Example Calculate $36 \times 47$ by using the algorithm．


Calculate the following multiplication problems by using the algorithm．

|  |  |  | （2）complumest Tens 0 Ones |  |  | （3）mempmees Tens Ones |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 | 7 |  | 6 | 7 |  | 86 |
| $\times$ | 4 | 6 | $\times$ | 5 | $7 \times$ |  | 4 |
| ＋ | $\begin{array}{r}2 \\ 1 \\ 4 \\ \hline\end{array}$ | 2 |  | 46 | 9 |  | 77 |
|  | 170 | 2 | 3 | 8 | 9 |  | 21 |
| （4） | $52 \times 38$ | 5 | $63 \times 76$ | 6 | $77 \times 44$ | （1） | $38 \times 56$ |
| 8 | $65 \times 47$ | （2） | $89 \times 36$ | （1） | $58 \times 49$ | （1） | $76 \times 63$ |
| （4） | 1976 | （3） | 4788 | 6 | 3388 | （1） | 2128 |
| 8 | 3055 | （9） | 3204 | （1） | 2842 | （11） | 4788 |



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Calculate the following multiplication problems by using the algorithm．

| （1）$\times$ | nomemempurest Tens | Ones | （2）\％memesthnteds Tens Ones |  |  | （3） <br> $\times$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $3 \begin{array}{r}2 \\ 2\end{array}$ | 6 3 | $\times$ | － 2 | 8 |  |  | $2 \cdot 1$ | 6 |
| $+$ | 97 6.2 | 8 |  | 9：5 | 2 | ＋ | 1 | 2 4 | 6 |
|  | 7：4，9 | 8 | 5 | 71 | 2 |  | 7 | 77 | 6 |
| 4 | $129 \times 45$ | 5 | $145 \times$ | 6 | $359 \times$ |  |  | 229 |  |
| 8 | $368 \times 26$ | 9 | $156 \times$ | （10） | $374 \times$ |  |  | 167 |  |
| （4） | 5805 | 5 | 8120 | （6） | 9693 |  | （1） | 526 |  |
| 8 | 9565 | 9 | 5928 | （10） | 9724 |  | （11） | 484 |  |



Calculate the following multiplication problems by using the algorithm．


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Calculate the following multiplication problems by using the algorithm．



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Calculate the following multiplication problems by using the algorithm．



Calculate the following multiplication problems by using the algorithm． （1）man mon 6


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Think about how to calculate the following multiplication problems in your head．

| $\begin{aligned} & 23 \times 3=69 \\ & 3 \\ & 20 \times 3= \\ & 20 \times 3 \\ & 3 \times 3 \end{aligned}$ | $\begin{aligned} & 42 \times 2=84 \\ & 40 \\ & 42 \times 2= \\ & 40 \times 2= \\ & 2 \times 2 \end{aligned}$ |
| :---: | :---: |
| （3） | $\text { (4) } \begin{aligned} & 21 \times 4=84 \\ & 20= \\ & 20 \times 4= \\ & 1 \times 4= \end{aligned}$ |
| （5） $25 \times 2=50$ | （6） $33 \times 3=99$ |
| （7） $32 \times 4=128$ | （8） $3 \times 25=75$ |
| （9） $4 \times 23=92$ | （10） $5 \times 13=65$ |
| （11） $2 \times 34=68$ | （12） $6 \times 12=72$ |

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Answer the following problems
（1）There are 43 children in the class．The teacher will provide 15 sheets of exercises to each child．How many sheets of exercises does the teacher need？

（2）The length of one train car is 25 m ．How long is the total length of a train with 17 cars？


| $15-15$ | Multiplication Algorithm－2 |
| :---: | :---: |

1 Calculate the following problems in your head．

| $6 \times 70=420$ | （2） $4 \times 40=160$ | （3） $8 \times 60=480$ |
| :---: | :---: | :---: |
| （4） $12 \times 30=$ | － 640 | ＋40 $=240$ |
| （） $25 \times 3=75$ | （8） $32 \times 3=96$ | （9） $2 \times 36$ |

2 Calculate these multiplication problems by using the algorithm．
（1） $32 \times 13$（2） $26 \times 15$（3） $28 \times 23$（4） $56 \times 13$

|  |  | 3 |  |  |  | 2 | 6 |  |  | 2 | 8 |  |  |  | 5 | 6 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  | 1 | 3 | $\times$ |  | 1 | 5 | $\times$ |  | 2 | 3 |  | $\times$ |  | 1 | 3 |  |
|  |  | 9 | 6 |  | 1 | 3 | 0 |  |  | 8 | 4 |  |  | 1 | 6 | 8 |  |
| ＋ | 3 | 2 |  | ＋ | 2 | 6 |  | ＋ | 5 | 6 |  |  | ＋ | 5 | 6 |  |  |
|  | 4 | ｜ | 6 |  | 3 | 9 | 0 |  |  | 4 |  |  |  | 7 | 2 |  |  |

（5） $46 \times 38$（6） $224 \times 21$（7） $359 \times 26$（8） $576 \times 35$

|  |  |  |  | 6 |  |  | 2 | 2 | 4 |  |  | 3 | 5 |  |  |  |  | 5 | 7 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  | 3 | 8 | $\times$ |  |  | 2 | 1 | $\times$ |  |  | 2 | 6 | $\times$ |  |  |  | 3 |  |  |
|  |  | 3 | 6 | 8 |  |  | 2 | 2 | 4 |  | 2 | ， | 5 | 4 |  |  | 2 | 8 | 8 |  |  |
| ＋ |  | 3 | 8 |  | ＋ | 4 | 4 | 8 |  | ＋ | 7 |  | 8 |  | ＋ |  | 7 | 2 | 8 |  |  |
|  |  | 7 | 4 |  |  | 4 | 7 | 0 | 4 |  | 9 | 3 | 3 |  |  | 2 | 0 | 1 | 6 |  |  |

3 There are 32 boxes containing 24 cans of orange juice each． How many cans of orange juice are there altogether？



Express the following stories with addition math sentences．You can use a $\square$ as the unknown number．Then find the answers．
（1）There were 34 students in my classroom．Because some students came from the next classroom，there are now 47 students in my classroom．How many students came from the


2）There were 37 children playing in the park．Then some additional children came．Now there are 52 children in the park． How many children came to the park？


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Express the following stories with subtraction math sentences．You can use a $\square$ as the unknown number．Then find the answers．
（1）I had 15 chocolates．My friends gave me some more chocolates．Now I have 24 chocolates．How many chocolates did my friends give me？

（2）There were 72 books in my class library．Some students borrowed some books．There are now only 39 books left． How many books were borrowed by the students？



Express the following stories with multiplication math sentences You can use a $\square$ as the unknown number．Then find the answers．
（1）There are 5 boxes containing the same number of oranges． The total number of oranges is 50 ．How many oranges are there in each box？

（2）My father bought 7 packages of chocolates．There are 63 pieces of chocolate altogether．How many pieces of chocolate does each package has？



Express the following stories with division math sentences．You can use a $\square$ as the unknown number．Then find the answers．
（1）There are 56 sheets of paper．These are divided equally，and each student ends up with 8 sheets each．How many students are there？
Math

$\begin{aligned} & \text { How to find a } \\ & \text { number in the } \square \\ & \square\end{aligned} 56 \div 8=7 \quad$ Answer 7 students
2 36 biscuits are divided equally among some children and each child gets 4 biscuits．How many children are there？



Express the following stories with division math sentences．You can use a $\square$ as the unknown number．Then find the answers．
（1）There were 25 students reading books in the library．More students came and now there are 37 students in the library． How many students came to the library？
Math
Sen
Math
Sentence
$\begin{aligned} & \text { How to find a } \\ & \text { number in the } \square \\ & \text { num }\end{aligned} \quad 37-25=12$ Answer 12 students
2 There were 64 people participating in the sports festival．Then some people went back home．Now there are only 28 people． How many people went back home？

$$
\begin{aligned}
& \text { How to find a } \\
& \text { number in the } \square \quad 64-28=36
\end{aligned}
$$

$$
\text { Answer } 36 \text { people }
$$

（3）My mother bought 7 boxes containing some pieces of chocolate．Now there are 56 pieces of chocolate altogether． How many pieces of chocolate are there in each box？

$\begin{aligned} & \text { How to find a } \\ & \text { number in the }\end{aligned} \quad 56 \div 7=8$


4） 44 biscuits are divided equally among some children and each child gets 4 biscuits each．How many children are there？


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4 Calculate the following problems

| （1） $1.3+0.6$ |  | 2 | $2.7+4.5$ | （3） $1.9-0.5$ |  | 4 8－4．7 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ． 3 |  | 2.7 |  | 9 |  | 8 |  |
| $+$ | 0.6 | ＋ | 4.5 |  | 0.5 | － | 4 | 7 |
|  | 1.9 |  | 7.2 |  | 4 |  | 3 | ． 3 |
| （5）$\frac{1}{5}+\frac{3}{5}=\frac{4}{5}$ |  | （6）$\frac{7}{8}+\frac{1}{8}=\frac{8}{8}$ or 1 |  | （7）$\frac{6}{7}-\frac{3}{7}=\frac{3}{7}$ |  | （8） $1-\frac{3}{10}=\frac{7}{10}$ |  |  |

（5）Write the numbers in the $\square$ ．
$\begin{array}{lllllllll}0 & 10000 & 20000 & 30000 & 40000 & 50000 & 60000 & 70000 & 80000\end{array}$


4． 30502 is made of 3 ten thousands， 5 hundreds and 2 ones．
54.8 is made of 4 I＇s（ones）and 80.1 ＇s．

6． 2.7 is made of 270.1 ＇s．
6 Compare the following two numbers and write the appropriate sign（＜or＞）in the $\square$ ．

7 There are two tapes，red and blue．The length of the red tape is 24 cm ．The length of blue tape is 8 cm ．How many times as long as is the red tape as the blue tape？
Math
Sentence $24 \div 8=3$
Answer 3 times

8 There are 40 oranges．We are going to put all oranges in boxes， 6 oranges per box．How many boxes do we need？


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## Data Utilization

Entire Grade－3 Review（4）
1 Convert the tally into numerals and write the numbers in the table below．The tally shows the results of a class survey to find the top five what you want to be in the future．


2 In the bar graph below，how many units does one mark on the scale represent？how many units are shown in the bar？
（1）

（2）

One mark
The bar shows
2500 m
3

（4）



3 The tables below show the best two types of ice cream flavors sold over four months to decide how much ice cream to buy from wholesaler．
（1）Complete the table below

| Type |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Vanilla | May | June | July | August | Total（Box） |
| Yogurt | 13 | 10 | 12 | 14 | 49 |
| Total | 10 | 12 | 24 | 28 | 74 |

（2）Complete the bar graph．


| 3 What flavour was sold more over four months？ | Yogurt |
| :--- | :--- |
|  | Which flavour was sold constantly every month？ | Vanilla

5 Which description is the correct decision based on the above graph？
A．It is better to buy more than 20 boxes of vanilla flavour from wholesaler because the sale of flavour from wholesaler because
Vanilla flavour increased every month．
B．It is necessary to buy yogurt flavour more from
wholesaler because the sale of yogurt increased wholesaler becaus
since May rapidly．
C．It is enough to buy 15 boxes of yogurt flavour from wholesaler every month because 10 to 14 boxes were sold since May．


