Guide to the Content and Layout of This Book


The two books are designed to be used in tandem. The Mathematics Items book is designed to facilitate the construction of sets of items tailored to the purpose of the user—most likely a classroom teacher. Users can select items for their own purpose based on their reading of the Mathematics Concepts and Mathematics Items book, print these, and administer them to students. Student responses can be scored using the scoring instructions presented in the Mathematics Concepts and Mathematics Items book and may be compared to the international benchmarks presented there.
When you subtract one of the numbers below from 900, the answer is greater than 300. Which number is it?

A. 823
B. 712
C. 667
D. 579

Item Number: I3
What is 3 times 23?

A. 323
B. 233
C. 69
D. 26
Subtract:  
\[
\begin{array}{c}
6,000 \\
-2,369 \\
\end{array}
\]
A. 4,369  
B. 3,742  
C. 3,631  
D. 3,531  

*Item Number: I9*
25 \times 18 \text{ is more than } 24 \times 18. \text{ How much more?}

A. 1
B. 18
C. 24
D. 25
Here is part of a wall chart that lists numbers from 1 to 100.

Below is part of the same wall chart. What number should be in the box with the question mark inside?

A. 34  
B. 44  
C. 54  
D. 64

Item Number: J9
Add:  
\[
\begin{array}{c}
6,971 \\
+5,291 \\
\hline
12,262
\end{array}
\]

A. 11,162  
B. 12,162  
C. 12,262  
D. 1,211,162
In which pair of numbers is the second number 100 more than the first number?

A. 199 and 209
B. 4,236 and 4,246
C. 9,635 and 9,735
D. 51,863 and 52,863
☐ stands for a number. $7 \times ☐$ will always give the same answer as

A. ☐ × 7
B. ☐ + 7
C. ☐ – 7
D. 7 + ☐
E. ☐ ÷ 7

Item Number: M3
John wanted to use his calculator to add 1,463 and 319. He entered 1,263 + 319 by mistake. What could he do to correct his mistake?

A. Add 200.
B. Add 2.
C. Subtract 2.
D. Subtract 200.
Which of these is the largest number?

A. 2,735
B. 2,537
C. 2,573
D. 2,753
Here is a number sentence.

2,000 + + 30 + 9 = 2,739

What number goes where the ___ is to make this sentence true?

Answer: ______________________________
What is the smallest whole number that you can make using the digits 4, 3, 9 and 1? Use each digit only once.

Answer: ______________________________
Write this addition fact as a multiplication fact.

___ × ____ = ____
Write the number that is 1,000 more than 56,821.

Answer: ______________________________
What is 5 less than 203?

Answer: ________________
In a game, Mysong and Naoki are making problems. They each have four cards like these.

The winner of the game is the person who can make the problem with the largest answer.

Who won this game? ______________________
How do you know? _______________________________
_________________________________________________

Write numbers in the squares below to show how you would place the cards to beat both Mysong and Naoki.

---

Item Number: V4A
In a game, Mysong and Naoki are making problems. They each have four cards like these.

The winner of the game is the person who can make the problem with the largest answer.

Who won this game? ______________________
How do you know? _______________________________
________________________________________

Write numbers in the squares below to show how you would place the cards to beat both Mysong and Naoki.

Item Number: V4B
0.4 is the same as

A. four

B. four tenths

C. four hundredths

D. one-fourth
Mario uses 5 tomatoes to make half a liter of tomato sauce. How much sauce can he make from 15 tomatoes?

A. A liter and a half
B. Two liters
C. Two liters and a half
D. Three liters
Each figure represents a fraction.

Which two figures represent the same fraction?

A. 1 and 2  
B. 1 and 4  
C. 2 and 3  
D. 3 and 4
Part of the figure is shaded.

What fraction of the figure is shaded?

A. \[\frac{5}{4}\]

B. \[\frac{4}{5}\]

C. \[\frac{6}{9}\]

D. \[\frac{5}{9}\]
There are 54 marbles, and they are put into 6 bags, so that the same number of marbles is in each bag. How many marbles would 2 bags contain?

A. 108 marbles
B. 18 marbles
C. 15 marbles
D. 12 marbles
E. 9 marbles
Which number represents the shaded part of the figure?

A. 2.8  
B. 0.5  
C. 0.2  
D. 0.02
Julie put a box on a shelf that is 96.4 centimeters long. The box is 33.2 centimeters long. What is the longest box she could put on the rest of the shelf? Show all your work.

Answer: ______________________________
A teacher marks 10 of her pupils’ tests every half hour. It takes her one and one-half hours to mark all her pupils’ tests. How many pupils are in her class?

Answer: ______________________________
There are 10 girls and 20 boys in Juanita’s class. Juanita said that there is one girl for every two boys. Her friend Amanda said that means $\frac{1}{2}$ of all the students in the class are girls.

How many students are there in Juanita’s class?
Answer: ________________

Is Juanita right? Answer: ________________
Use words or pictures to explain why.

Is Amanda right? Answer: ________________
Use words and pictures to explain why.
There are 10 girls and 20 boys in Juanita’s class. Juanita said that there is one girl for every two boys. Her friend Amanda said that means $\frac{1}{2}$ of all the students in the class are girls.

How many students are there in Juanita’s class?
Answer: ________________

Is Juanita right? Answer: ________________
Use words or pictures to explain why.

Is Amanda right? Answer: ________________
Use words and pictures to explain why.
Write a fraction that is larger than $\frac{2}{7}$.

Answer: _______________________________
Maria and her sister Louisa leave home at the same time and ride their bicycles to school 9 kilometers away.

Maria rides at a rate of 3 kilometers in 10 minutes. How long will it take her to get to school?

Answer: ____________________________ minutes

Louisa rides at a rate of 1 kilometer in 3 minutes. How long will it take her to get to school?

Answer: ____________________________ minutes

Who arrives at school first?

Answer: ____________________________
Maria and her sister Louisa leave home at the same time and ride their bicycles to school 9 kilometers away.

Maria rides at a rate of 3 kilometers in 10 minutes. How long will it take her to get to school?

Answer: ______________________________ minutes

Louisa rides at a rate of 1 kilometer in 3 minutes. How long will it take her to get to school?

Answer: ______________________________ minutes

Who arrives at school first?

Answer: ______________________________
Maria and her sister Louisa leave home at the same and ride their bicycles to school 9 kilometers away.

Maria rides at a rate of 3 kilometers in 10 minutes. How long will it take her to get to school?

Answer: ______________________________ minutes

Louisa rides at a rate of 1 kilometer in 3 minutes. How long will it take her to get to school?

Answer: ______________________________ minutes

Who arrives at school first?

Answer: ______________________________
Sam said that $\frac{1}{3}$ of a pie is less than $\frac{1}{4}$ of the same pie.

Is Sam correct? _____________

Use the circles below to show why this is so.

Shade in $\frac{1}{3}$ of this circle  
Shade in $\frac{1}{4}$ of this circle
Which of these is largest?

A. 1 kilogram
B. 1 centigram
C. 1 milligram
D. 1 gram
Elena worked 57 hours in March, 62 hours in April, and 59 hours in May. Which of these is the BEST estimate of the total number of hours she worked for the three months?

A. 50 + 50 + 50
B. 55 + 55 + 55
C. 60 + 60 + 60
D. 65 + 65 + 65
About how long is this picture of a pencil?

A. 5 cm  
B. 10 cm  
C. 20 cm  
D. 30 cm
A thin wire 20 centimeters long is formed into a rectangle. If the width of this rectangle is 4 centimeters, what is its length?

A. 5 centimeters
B. 6 centimeters
C. 12 centimeters
D. 16 centimeters
The weight (mass) of a clothespin is 9.2 g. Which of these is the best estimate of the total weight (mass) of 1,000 clothespins?

A. 900 g
B. 9,000 g
C. 90,000 g
D. 900,000 g

*Item Number: L6*
Four children measured the width of a room by counting how many paces it took them to cross it. The chart shows their measurements.

<table>
<thead>
<tr>
<th>Name</th>
<th>Number of Paces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen</td>
<td>10</td>
</tr>
<tr>
<td>Erlane</td>
<td>8</td>
</tr>
<tr>
<td>Ana</td>
<td>9</td>
</tr>
<tr>
<td>Carlos</td>
<td>7</td>
</tr>
</tbody>
</table>

Who had the longest pace?

A. Stephen
B. Erlane
C. Ana
D. Carlos
Which of these would most likely be measured in milliliters?

A. The amount of liquid in a teaspoon
B. The weight (mass) of a pin
C. The amount of gasoline in a tank
D. The thickness of 10 sheets of paper
Here is a paper clip.

About how many lengths of the paper clip is the same as the length of this line?

Answer: ______________________________
Mr. Brown goes for a walk and returns to where he started at 07:00. If his walk took 1 hour and 30 minutes, at what time did he start his walk?

Answer: ________________________________
The triangle represents one tile in the shape of a triangle.

How many tiles will it take to cover the figure below?

Number of tiles: ___________________

Use the figure above to show how you worked out your answer.

*Item Number: U1*
How many millimeters are in a meter?

Answer: ______________________________
The figure shows how Mary spent her time one day.

What percent of time altogether did she spend playing and doing homework?

A. 10%
B. 15%
C. 20%
D. 25%
E. 30%
Kyle and Bob are playing a game. The object of the game is to get the highest total of points. This chart shows how many points they each scored.

<table>
<thead>
<tr>
<th>Round</th>
<th>Kyle</th>
<th>Bob</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1</td>
<td>125</td>
<td>100</td>
</tr>
<tr>
<td>Round 2</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Round 3</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td>Round 4</td>
<td>50</td>
<td>150</td>
</tr>
</tbody>
</table>

Who won, and by how many points?

A. Bob won by 25 points.

B. Bob won by 100 points.

C. Kyle won by 25 points.

D. Kyle won by 175 points.
The graph shows 500 cedar trees and 150 hemlock trees.

<table>
<thead>
<tr>
<th>Cedar</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>🌲🌳🌳</td>
</tr>
<tr>
<td>Hemlock</td>
<td>🌲</td>
</tr>
</tbody>
</table>

How many trees does each 🌲 represent?

Answer: ______________________________
There is only one red marble in each of these bags.

Without looking in the bags, you are to pick a marble out of one of the bags. Which bag would give you the greatest chance of picking the red marble?

A. The bag with 10 marbles.

B. The bag with 100 marbles.

C. The bag with 1,000 marbles.

D. All bags would give the same chance.
Samantha drops a stone onto each of these targets. The stone has the best chance of landing on a shaded space in which target?

A.  
B.  
C.  
D.  

Item Number: M1
A team is selling raffle tickets. The table shows how many tickets they have sold so far.

<table>
<thead>
<tr>
<th>Player’s Name</th>
<th>Number of Tickets Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carlos</td>
<td>4</td>
</tr>
<tr>
<td>Maria</td>
<td>7</td>
</tr>
<tr>
<td>Bill</td>
<td>3</td>
</tr>
<tr>
<td>Ted</td>
<td>7</td>
</tr>
<tr>
<td>Faye</td>
<td>6</td>
</tr>
<tr>
<td>Abby</td>
<td>9</td>
</tr>
</tbody>
</table>

They need to sell 60 tickets altogether. How many more tickets must they sell?

Answer: ____________________________
This table shows the ages of the girls and boys in a club.

<table>
<thead>
<tr>
<th>Age</th>
<th>Number of Girls</th>
<th>Number of Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>6</td>
<td>10</td>
</tr>
</tbody>
</table>

Use the information in the table to complete the graph for ages 9 and 10.
The graph shows the number of cartons of milk sold each day of a week at a school.

How many cartons of milk did the school sell on Monday?

Answer: ______________________________

How many cartons of milk did the school sell that week?
Show your work.

Answer: ______________________________
The graph shows the number of cartons of milk sold each day of a week at a school.

How many cartons of milk did the school sell on Monday?

Answer: ______________________________

How many cartons of milk did the school sell that week? Show your work.

Answer: ______________________________
This map shows city blocks with a delivery truck at one corner.

The driver of the delivery truck starts at corner X. He goes 3 blocks east and 2 blocks north to get to the school. On what corner is the school located?

A. A  
B. B  
C. C  
D. D  
E. E
Which of these is made with straight sides only?

A.  
B.  
C.  
D.  
E.
Here is a hexagon.

The hexagon is divided into six
A. triangles
B. squares
C. pentagons
D. rectangles
Which of these does NOT show a line of symmetry?

Item Number: J2
Here is a figure.

Which number is in the square and the circle but is NOT in the triangle?

A. 2
B. 3
C. 4
D. 5

*Item Number: K1*
Which rectangle is NOT divided into 4 equal parts?

A.  

B.  

C.  

D.  

Item Number: K8
This is a game board.

Which object is located at (2, D)?

A. The plane
B. The truck
C. The bus
D. The boat

Item Number: L3
This picture shows a cube with one edge marked. How many edges does the cube have altogether?

A. 6  
B. 8  
C. 12  
D. 24
On this grid, find the dot with the circle around it. We can describe where this dot is by saying it is at First Number 1, Second Number 3

Now find the dot with the triangle around it. Describe where the dot is on the grid in the same way. Fill in the numbers we would use:

First Number _____________ Second Number _____________

Item Number: M4
Craig folded a piece of paper in half and cut out a shape.

Draw a picture to show what the cut-out shape will look like when it is opened up and flattened out.
Tanya has read the first 78 pages in a book that is 130 pages long. Which number sentence could Tanya use to find the number of pages she must read to finish the book?

A. $130 + 78 = \Box$
B. $\Box \cdot 78 = 130$
C. $130 \div 78 = \Box$
D. $130 - 78 = \Box$

*Item Number: 17*
What do you have to do to each number in Column A to get the number next to it in Column B?

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td>5</td>
</tr>
<tr>
<td>50</td>
<td>10</td>
</tr>
</tbody>
</table>

A. Add 8 to the number in Column A.

B. Subtract 8 from the number in Column A.

C. Multiply the number in Column A by 5.

D. Divide the number in Column A by 5.
Which pair of numbers follows the rule “Multiply the first number by 5 to get the second number”?

A. \[15 \rightarrow 3\]
B. \[6 \rightarrow 11\]
C. \[11 \rightarrow 6\]
D. \[3 \rightarrow 15\]
Here is the beginning of a pattern of tiles.

If the pattern continues, how many tiles will be in Figure 6?

A. 12
B. 15
C. 18
D. 21
These shapes are arranged in a pattern.

〇△〇〇△〇〇〇△△△

Which set of shapes is arranged in the same pattern?

A. ★□★□★□★□★□★□★□
B. □★□★□★□★□★□★□★□
C. ★□★ ★□★ ★□★ ★□★ □★
D. □□★★ □□★★ □□★★ □□★★ □★

Item Number: L4
Henry is older than Bill, and Bill is older than Peter. Which statement must be true?

A. Henry is older than Peter.

B. Henry is younger than Peter.

C. Henry is the same age as Peter.

D. We cannot tell who is oldest from the information.
Here is a number sentence.

\[ 4 \times \Box < 17 \]

Which number could go in the \( \Box \) to make the sentence true?

A. 4
B. 5
C. 12
D. 13
These numbers are part of a pattern.

50, 46, 42, 38, 34, ...

What do you have to do to get the next number?

Answer: ______________________________
\( \square \) represents the number of magazines that Lina reads each week.
Which of these represents the total number of magazines that Lina reads in 6 weeks?

A. \( 6 + \square \)
B. \( 6 \times \square \)
C. \( \square + 6 \)
D. \( (\square + \square) \times 6 \)
Rob had 50 apples. He sold some and then had 20 left. Which of these is a number sentence that shows this?

A  □ − 20 = 50  
B  20 − □ = 50  
C  □ − 50 = 20  
D  50 − □ = 20
37 \times \square = 703.
What is the value of 37 \times \square + 6?

Answer: ____________
Here is a number pattern.

100, 1, 99, 2, 98, □, □, □

What three numbers should go in the boxes?

A  3, 97, 4
B  4, 97, 5
C  97, 3, 96
D  97, 4, 96
The rule for the table is that numbers in each row and column must add up to the same number. What number goes in the center of the table?

- A 1
- B 2
- C 7
- D 12
The daily start times for showing a movie are listed below:

<table>
<thead>
<tr>
<th>Show</th>
<th>Start Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>2:00 p.m.</td>
</tr>
<tr>
<td>2nd</td>
<td>3:30 p.m.</td>
</tr>
<tr>
<td>3rd</td>
<td>5:00 p.m.</td>
</tr>
<tr>
<td>4th</td>
<td>?</td>
</tr>
</tbody>
</table>

If this pattern continues, what is the start time for the 4th show?

A  5:30 p.m.
B  6:00 p.m.
C  6:30 p.m.
D  7:00 p.m.
A number machine takes a number and operates on it. When the Input Number is 5, the Output Number is 9, as shown below.

When the Input Number is 7, which of these is the Output Number?

- A 11
- B 13
- C 14
- D 25

*Item Number: M031190*
The graph shows the heights of four girls.

The names are missing from the graph. Debbie is the tallest. Amy is the shortest. Dawn is taller than Sarah. How tall is Sarah?

- A 75 cm
- B 100 cm
- C 125 cm
- D 150 cm

*Item Number: M012126*
Central School had a bottle collection. Children in each class brought empty bottles to school. The principal made a bar graph of the number of bottles from five classes.

Which class collected 45 bottles?

- A  Miss Barber's class
- B  Mr. Chyn's class
- C  Mrs. Friedman's class
- D  Mr. Mack's class

*Item Number: M011009*
Central School had a bottle collection. Children in each class brought empty bottles to school. The principal made a bar graph of the number of bottles from five classes.

Which two classes collected exactly 80 bottles?

A  Miss Barber’s and Mrs. Friedman’s classes  
B  Miss Barber’s and Mr. Mack’s classes  
C  Mrs. Friedman’s and Miss Gonzalez’s classes  
D  Miss Gonzalez’s and Mr. Mack’s classes
This chart shows temperature readings made at different times on four days.

<table>
<thead>
<tr>
<th></th>
<th>6 a.m.</th>
<th>9 a.m.</th>
<th>Noon</th>
<th>3 p.m.</th>
<th>8 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>15˚</td>
<td>17˚</td>
<td>20˚</td>
<td>21˚</td>
<td>19˚</td>
</tr>
<tr>
<td>Tuesday</td>
<td>15˚</td>
<td>15˚</td>
<td>15˚</td>
<td>10˚</td>
<td>9˚</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8˚</td>
<td>10˚</td>
<td>14˚</td>
<td>13˚</td>
<td>15˚</td>
</tr>
<tr>
<td>Thursday</td>
<td>8˚</td>
<td>11˚</td>
<td>14˚</td>
<td>17˚</td>
<td>20˚</td>
</tr>
</tbody>
</table>

When was the highest temperature recorded?

- **A** Noon on Monday
- **B** 3 p.m. on Monday
- **C** Noon on Tuesday
- **D** 3 p.m. on Wednesday
In a class of 30 students, 10 have black hair, 15 have blonde hair, and the rest have brown hair. Complete the graph below to show the number of students with brown hair.
A store owner decided to check how many pens, pencils, erasers, and rulers were sold on the day school opened. He made the tally chart below.

<table>
<thead>
<tr>
<th>Pens</th>
<th>Pencils</th>
<th>Erasers</th>
<th>Rulers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How many more pencils than rulers were sold?

Answer: _____________
The graph above shows the daily high and low temperatures for a week. On which day is the difference between the high and low temperatures the greatest?

A. Monday
B. Thursday
C. Friday
D. Saturday
A teacher asked 30 students in her class the flavor of their favorite ice cream. The table above shows how the teacher recorded the students’ responses.

In the bar graph below, which ice cream flavor corresponds to the bar that is labeled X?

- A  butterscotch
- B  chocolate
- C  strawberry
- D  vanilla

Item Number: M031315
Figures that are the same size and shape are called congruent figures.

Which two figures are congruent?

A 1 and 2
B 1 and 3
C 1 and 4
D 3 and 4
Two of the four triangles in the figure above are the same shape but different sizes. Shade in those two triangles.
On the grid, draw a line parallel to line $L$. 

Item Number: M031327
This figure will be turned to a different position.

Which of these could be the figure after it is turned?

A  B  C  D
Here is a cone. Part of its surface is flat and part of its surface is curved.

Which of these solids also has both a flat surface and a curved surface?

A  B  C  D

Item Number: M011006
All of the pupils in a class cut out paper shapes. The teacher picked one out and said, “This shape is a triangle.” Which of these statements MUST be correct?

A  The shape has three sides.
B  The shape has a right angle.
C  The shape has equal sides.
D  The shape has equal angles.

Item Number: M011022
In the picture there are a number of geometric shapes, like circles, squares, rectangles, and triangles. For example, the sun looks like a circle.

Draw lines to three other different objects in the picture and write what shapes they look like.
A. Use 2 of the triangle tiles to make one large black triangle. Then show what you did with your tiles by shading in your triangle below.

**Shade in Your Triangle Here**

B. Use all 4 triangle tiles to make a black square. Then show what you did with your tiles by shading in your square below.

**Shade in Your Square Here**

C. What fraction of the figure is shaded in part B above?

Answer: ________________
A. Use 2 of the triangle tiles to make one large black triangle. Then show what you did with your tiles by shading in your triangle below.

**Shade in Your Triangle Here**

B. Use all 4 triangle tiles to make a black square. Then show what you did with your tiles by shading in your square below.

**Shade in Your Square Here**

C. What fraction of the figure is shaded in part B above?

**Answer: _____________**
A. Use 2 of the triangle tiles to make one large black triangle. Then show what you did with your tiles by shading in your triangle below.

**Shade in Your Triangle Here**

B. Use all 4 triangle tiles to make a black square. Then show what you did with your tiles by shading in your square below.

**Shade in Your Square Here**

C. What fraction of the figure is shaded in part B above?

Answer: ______________
A. Draw 1 straight line on this rectangle to divide it into 2 triangles.

B. Draw 1 straight line on this rectangle to divide it into 2 rectangles.

C. Draw 2 straight lines on this rectangle to divide it into 1 rectangle and 2 triangles.
A. Draw 1 straight line on this rectangle to divide it into 2 triangles.

B. Draw 1 straight line on this rectangle to divide it into 2 rectangles.

C. Draw 2 straight lines on this rectangle to divide it into 1 rectangle and 2 triangles.
A. Draw 1 straight line on this rectangle to divide it into 2 triangles.

B. Draw 1 straight line on this rectangle to divide it into 2 rectangles.

C. Draw 2 straight lines on this rectangle to divide it into 1 rectangle and 2 triangles.
Which of these could be the weight (mass) of an adult?

A  1 kg
B  6 kg
C  60 kg
D  600 kg

Item Number: M011023
What units would be best to use to measure the weight (mass) of an egg?

A  centimeters
B  milliliters
C  grams
D  kilograms
Which of these could equal 150 milliliters?

A  The amount of water in a cup
B  The length of a kitten
C  The weight of an egg
D  The area of a coin
Which of these figures has the largest area?

A

B

C

D

Item Number: M011005
Simon wants to watch a film that is between $1\frac{1}{2}$ and 2 hours long.

Which of the following films should he choose?

A  a 59-minute film
B  a 102-minute film
C  a 121-minute film
D  a 150-minute film
When Tracy left for school, the temperature was minus 3 degrees.

At recess, the temperature was 5 degrees.

How many degrees did the temperature rise?
Draw a triangle in the grid so that the line $AB$ is the base of the triangle and the two new sides are the same length as each other.
One centimeter on the map represents 8 kilometers on the land.

About how far apart are Oxford and Smithville on the land?

A 4 km  
B 16 km  
C 35 km  
D 50 km
The squares in the grid above have areas of 1 square centimeter. Draw lines to complete the figure so that it has an area of 13 square centimeters.
Here is a calendar for December.

<table>
<thead>
<tr>
<th></th>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mary's birthday is on Thursday, December 2. She is going on a trip exactly 3 weeks later. On what date will she go on the trip?

A  December 16th
B  December 21st
C  December 23rd
D  December 30th
Here is a rectangle with length 6 centimeters and width 4 centimeters. The distance right around its shape is called its perimeter.

Which of these gives the perimeter of the rectangle in centimeters?

A 6 + 4
B 6 × 4
C 6 × 4 × 2
D 6 + 4 + 6 + 4
The distance from one town to another is 180 km. If Betty has to drive the distance in 3 hours, what must her average speed be in kilometers per hour?

A  180 \times 3

B  180 + 3

C  180 + 3

D  180 - 3
George practiced soccer six days a week.
For 3 of the days he practiced for 45 minutes each day.
For 3 of the days he practiced for 20 minutes each day.
In hours and minutes, what is the total amount of time George practiced on these six days?

A 2 hours 20 minutes  
B 2 hours 55 minutes  
C 3 hours 5 minutes  
D 3 hours 15 minutes
Jasmine made a stack of cubes of the same size. The stack had 5 layers and each layer had 10 cubes. What is the volume of the stack?

A  5 cubes
B  15 cubes
C  30 cubes
D  50 cubes
What is the sum of 2.5 and 3.8?

A  5.3
B  6.3
C  6.4
D  9.5
Subtract: 4.03
\[ -1.15 \]

A 5.18
B 4.45
C 3.12
D 2.98
E 2.88
Which of these means $\frac{7}{10}$?

A  70  
B  7   
C  0.7  
D  0.07
A. WITHOUT using any triangle tiles, place 4 tiles so that $\frac{1}{2}$ of a square shape is black. Then shade in the square below to show what you did with your tiles.

**Shade in Here**

B. Place 8 tiles so that $\frac{5}{8}$ of the rectangle shape is black. Then shade in the rectangle below to show what you did with your tiles.

**Shade in Here**
A. WITHOUT using any triangle tiles, place 4 tiles so that $\frac{1}{2}$ of a square shape is black. Then shade in the square below to show what you did with your tiles.

**Shade in Here**

B. Place 8 tiles so that $\frac{5}{8}$ of the rectangle shape is black. Then shade in the rectangle below to show what you did with your tiles.

**Shade in Here**
Janis, Maija, and their mother were eating a cake. Janis ate $\frac{1}{2}$ of the cake. Maija ate $\frac{1}{4}$ of the cake. Their mother ate $\frac{1}{4}$ of the cake. How much of the cake is left?

- $\text{A} \quad \frac{3}{4}$
- $\text{B} \quad \frac{1}{2}$
- $\text{C} \quad \frac{1}{4}$
- $\text{D} \quad$ None
There are 600 balls in a box, and $\frac{1}{3}$ of the balls are red.

How many red balls are in the box?

Answer: ____________ red balls
A cake was cut into 8 pieces of equal size. John ate 3 pieces of the cake. What fraction of the cake did John eat?

A  \( \frac{1}{8} \)

B  \( \frac{3}{8} \)

C  \( \frac{3}{5} \)

D  \( \frac{8}{3} \)
In which figure are one-half of the dots black?

A)  

B)  

C)  

D)  

Item Number: M011001
In this diagram, 2 out of every 3 squares are shaded.

Which diagram has 3 out of every 4 squares shaded?

A) 
```
[shaded squares]
```

B) 
```
[white squares]
```

C) 
```
[shaded squares]
```

D) 
```
[shaded squares]
```

Item Number: M011016
Which shows \( \frac{2}{3} \) of the square shaded?

- A
- B
- C
- D
- E
For every soft drink bottle that Fred collected, Maria collected 3. Fred collected a total of 9 soft drink bottles. How many did Maria collect?

- A 3
- B 12
- C 13
- D 27

*Item Number: M031108*
Which number would be rounded to 600 when rounded to the nearest hundred?

**A** 62
**B** 160
**C** 546
**D** 586
**E** 660
What number equals 3 ones + 5 tens + 4 hundreds + 60 thousands?

A  6,453
B  60,453
C  64,530
D  354,060
E  604,530
Which of these is a name for 9,740?

A  Nine thousand seventy-four
B  Nine thousand seven hundred forty
C  Nine thousand seventy-four hundred
D  Nine hundred seventy-four thousand
Which number is equal to eight tens plus nine tens?

A. 17
B. 170
C. 1,700
D. 17,000
15 \times 9 =

Answer: ____________

Item Number: M031305
204 ÷ 4 =

Answer: ____________
Lia is practicing addition and subtraction problems. What number should Lia add to 142 to get 369?

Answer: ____________
Juanita wanted to use her calculator to add 1,379 and 243. She entered 1,279+243 by mistake. Which of these could she do to correct the mistake?

A. Add 100
B. Add 1
C. Subtract 1
D. Subtract 100
In Toshi's class there are twice as many girls as boys. There are 8 boys in the class. What is the total number of boys and girls in the class?

- A 12
- B 16
- C 20
- D 24
There are 9 boxes of pencils. Each box has 125 pencils. What is the total number of pencils?

A  1,025  
B  1,100  
C  1,125  
D  1,220  
E  1,225
It takes Chris 4 minutes to wash a window. He wants to know how many minutes it will take him to wash 8 windows at this rate. He should

A) multiply $4 \times 8$
B) divide 8 by 4
C) subtract 4 from 8
D) add 8 and 4
Mark's garden has 84 rows of cabbages. There are 57 cabbages in each row. Which of these gives the BEST way to estimate how many cabbages there are altogether?

A  100 × 50 = 5,000
B  90 × 60 = 5,400
C  80 × 60 = 4,800
D  80 × 50 = 4,000
Each student needs 8 notebooks for school. How many notebooks are needed for 115 students?

Answer: ____________
A piece of rope 204 cm long is cut into 4 equal pieces. Which of these gives the length of each piece in centimeters?

A 204 + 4
B 204 × 4
C 204 – 4
D 204 ÷ 4
Using the number tiles, Joan and Herbert played a new game. They placed the numbers to make the largest answer.

A. Use the tiles 1, 5, and 9. Write the numbers on the tiles in the boxes below to make the largest answer when you add.

\[ \hline \hline \square & \square & + & \square \hline \hline \]

B. Use the tiles 2, 3, and 7. Write the numbers on the tiles in the boxes below to make the largest answer when you subtract.

\[ \hline \hline \square & \square & - & \square \hline \hline \]

C. Use the tiles 1, 4, and 5. Write the numbers on the tiles in the boxes below to make the largest answer when you multiply.

\[ \hline \hline \square & \square & \times & \square \hline \hline \]
Using the number tiles, Joan and Herbert played a new game. They placed the numbers to make the largest answer.

A. Use the tiles $1$, $5$, and $9$. Write the numbers on the tiles in the boxes below to make the largest answer when you add.

\[ \text{\Huge } + \text{\Huge } \]

B. Use the tiles $2$, $3$, and $7$. Write the numbers on the tiles in the boxes below to make the largest answer when you subtract.

\[ \text{\Huge } - \text{\Huge } \]

C. Use the tiles $1$, $4$, and $5$. Write the numbers on the tiles in the boxes below to make the largest answer when you multiply.

\[ \text{\Huge } \times \text{\Huge } \]
Using the number tiles, Joan and Herbert played a new game. They placed the numbers to make the largest answer.

A. Use the tiles 1, 5, and 9. Write the numbers on the tiles in the boxes below to make the largest answer when you add.

B. Use the tiles 2, 3, and 7. Write the numbers on the tiles in the boxes below to make the largest answer when you subtract.

C. Use the tiles 1, 4, and 5. Write the numbers on the tiles in the boxes below to make the largest answer when you multiply.
Each small square (□) is equal to 1. There are 10 small squares in each strip. There are 100 small squares in each large square.

What number is shown?

A 16  
B 358  
C 538  
D 835
Which of these has the same value as 342?

A  3,000 + 400 + 2
B  300 + 40 + 2
C  30 + 4 + 2
D  3 + 4 + 2
Which digit is in the hundreds place in 2,345?

A) 2
B) 3
C) 4
D) 5
Which number sentence is true?

A  968 < 698
B  968 < 689
C  968 > 689
D  968 = 689
On the number line above, what number goes in the box?

Number in □ = _____________

Item Number: M031162
Get to 20 Number Game

Two children, Joan and Herbert, are learning to play a game “Get to 20.” Here are the rules for the game.

GET TO 20
RULES

Pick Tiles: Each player draws three number tiles.

Add Tiles: Each player places the three tiles to make an addition problem with the sum total closest to 20.

For example, here are four ways a player who draws 1, 4, and 5 could place the tiles:

\[
\begin{align*}
5 &+ 1 \quad \text{or} \quad 4 &+ 5 \\
\quad 46 &\quad \text{or} \quad 19 &+ 4 \\
\quad 10 &
\end{align*}
\]

This player should choose to show the addition problem \( \frac{15}{19} \) because 19 is the total closest to 20.

Joan and Herbert played the game “Get to 20.”

Joan picked 2, 7, and 9. Herbert picked 1, 3, and 6.

A. What is the addition problem that Joan could make with her number tiles that gives a total closest to 20? Be sure to include the total.

B. What is the addition problem that Herbert could make with his number tiles that gives a total closest to 20? Be sure to include the total.

C. Herbert said, “If I pick 1, 4, and 6, I can make 20 two different ways.”

Show two ways Herbert could make 20 with 1, 4, and 6.

First way:

Second way:
Get to 20 Number Game

Two children, Joan and Herbert, are learning to play a game “Get to 20.” Here are the rules for the game.

**GET TO 20 **

**RULES**

**Pick Tiles:** Each player draws three number tiles.

**Add Tiles:** Each player places the three tiles to make an addition problem with the sum total closest to 20.

For example, here are four ways a player who draws 1, 4, and 5 could place the tiles:

\[
\begin{array}{ccc}
5 & 1 & 1 \\
+ & 4 & + \\
\hline
55 & 46\ or \ & 19 & 19 \ or \ 10
\end{array}
\]

This player should choose to show the addition problem 15 + 4 because 19 is the total closest to 20.

Joan and Herbert played the game “Get to 20.”

Joan picked 2, 7, and 9. Herbert picked 1, 3, and 6.

A. What is the addition problem that Joan could make with her number tiles that gives a total closest to 20? Be sure to include the total.

B. What is the addition problem that Herbert could make with his number tiles that gives a total closest to 20? Be sure to include the total.

C. Herbert said, “If I pick 1, 4, and 6, I can make 20 two different ways.”

Show two ways Herbert could make 20 with 1, 4, and 6.

First way:

Second way:
Get to 20 Number Game

Two children, Joan and Herbert, are learning to play a game “Get to 20.” Here are the rules for the game.

**rules**

**Pick Tiles:** Each player draws three number tiles.

**Add Tiles:** Each player places the three tiles to make an addition problem with the sum total closest to 20.

For example, here are four ways a player who draws 1, 4, and 5 could place the tiles:

\[
\begin{align*}
5 & 1 \\
+ & 4 \\
\hline
55 \\
\end{align*} \\
\begin{align*}
4 & 5 \\
+ & 1 \\
\hline
46 \\
\end{align*} \\
\begin{align*}
1 & 5 \\
+ & 4 \\
\hline
19 \\
\end{align*} \\
\begin{align*}
1 \\
+ & 5 \\
\hline
10 \\
\end{align*}
\]

This player should choose to show the addition problem \( \frac{15}{19} \) because 19 is the total closest to 20.

Joan and Herbert played the game “Get to 20.”

Joan picked 2, 7, and 9. Herbert picked 1, 3, and 6.

A. What is the addition problem that Joan could make with her number tiles that gives a total closest to 20? Be sure to include the total.

B. What is the addition problem that Herbert could make with his number tiles that gives a total closest to 20? Be sure to include the total.

C. Herbert said, “If I pick 1, 4, and 6, I can make 20 two different ways.”

Show two ways Herbert could make 20 with 1, 4, and 6.

First way:

Second way:
## Item Index 1995

<table>
<thead>
<tr>
<th>Content Domain</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Whole Numbers</strong></td>
<td></td>
</tr>
<tr>
<td>I3  Which number is it</td>
<td>2</td>
</tr>
<tr>
<td>I4  What is 3 times 23</td>
<td>3</td>
</tr>
<tr>
<td>I9  Subtraction of 4 digit numbers</td>
<td>4</td>
</tr>
<tr>
<td>J4  What is the increase in product</td>
<td>5</td>
</tr>
<tr>
<td>J9  Number in box</td>
<td>6</td>
</tr>
<tr>
<td>K2  Addition of four digit numbers</td>
<td>7</td>
</tr>
<tr>
<td>L7  Which pair different by 100</td>
<td>8</td>
</tr>
<tr>
<td>M3  Which operation equivalent</td>
<td>9</td>
</tr>
<tr>
<td>M6  What to do to correct mistake</td>
<td>10</td>
</tr>
<tr>
<td>M8  Choose largest number</td>
<td>11</td>
</tr>
<tr>
<td>S2  Complete number sentence</td>
<td>12</td>
</tr>
<tr>
<td>T2  Make smallest whole number</td>
<td>13</td>
</tr>
<tr>
<td>U5  Addition/multiplication task</td>
<td>14</td>
</tr>
<tr>
<td>V2  Number larger than 56,821</td>
<td>15</td>
</tr>
<tr>
<td>V3  What is 5 less than 203</td>
<td>16</td>
</tr>
<tr>
<td>V4A Game with cards: who won? Explain</td>
<td>17</td>
</tr>
<tr>
<td>V4B Game with cards: winning numbers</td>
<td>18</td>
</tr>
<tr>
<td><strong>Fractions and Proportionality</strong></td>
<td></td>
</tr>
<tr>
<td>I2  0.4 is the same as</td>
<td>19</td>
</tr>
<tr>
<td>I5  Sauce from 15 tomatoes</td>
<td>20</td>
</tr>
<tr>
<td>I8  Which 2 figures represent same fraction</td>
<td>21</td>
</tr>
<tr>
<td>J7  Fraction of figure shaded</td>
<td>22</td>
</tr>
<tr>
<td>K9  How many marbles in two bags</td>
<td>23</td>
</tr>
<tr>
<td>M5  Decimal representing shaded part of figure</td>
<td>24</td>
</tr>
<tr>
<td>S3  Longest box on shelf</td>
<td>25</td>
</tr>
<tr>
<td>S4  How many pupils in class</td>
<td>26</td>
</tr>
<tr>
<td>T4A Girl/boy ratio: is Juanita right</td>
<td>27</td>
</tr>
<tr>
<td>T4B Girl/boy ratio: is Amanda right</td>
<td>28</td>
</tr>
<tr>
<td>U2  Fraction larger than 2/7</td>
<td>29</td>
</tr>
<tr>
<td>U3A Bicycle ride: how long, Maria</td>
<td>30</td>
</tr>
<tr>
<td>U3B Bicycle ride: how long, Louisa</td>
<td>31</td>
</tr>
<tr>
<td>U3C Bicycle ride: who arrived first</td>
<td>32</td>
</tr>
<tr>
<td>V1  Fractions of pie</td>
<td>33</td>
</tr>
<tr>
<td><strong>Measurement, Estimation, and Number Sense</strong></td>
<td></td>
</tr>
<tr>
<td>J6  Choose largest mass</td>
<td>34</td>
</tr>
<tr>
<td>J8  Which is best estimate of hours</td>
<td>35</td>
</tr>
<tr>
<td>K5  Estimate pencil length</td>
<td>36</td>
</tr>
<tr>
<td>K7  Length of rectangle</td>
<td>37</td>
</tr>
<tr>
<td>L6  Best estimate of clothespin mass</td>
<td>38</td>
</tr>
<tr>
<td>L8  Who had the longest pace</td>
<td>39</td>
</tr>
<tr>
<td>M7  Substance measured in milliliters</td>
<td>40</td>
</tr>
<tr>
<td>S5  How many paper clip lengths</td>
<td>41</td>
</tr>
<tr>
<td>T3  When did Mr. Brown start walk</td>
<td>42</td>
</tr>
<tr>
<td>U1  Triangles in figure</td>
<td>43</td>
</tr>
<tr>
<td>V5  Millimeters in a meter</td>
<td>44</td>
</tr>
<tr>
<td><strong>Data Representation, Analysis, and Probability</strong></td>
<td></td>
</tr>
<tr>
<td>J3  What % of time in play and homework</td>
<td>45</td>
</tr>
<tr>
<td>K4  Who won and by how many points</td>
<td>46</td>
</tr>
<tr>
<td>L1  Pictograph of trees</td>
<td>47</td>
</tr>
<tr>
<td>L2  Chance of picking red marble</td>
<td>48</td>
</tr>
<tr>
<td>M1  Chance of hitting shaded region</td>
<td>49</td>
</tr>
<tr>
<td>M2  How many raffle tickets</td>
<td>50</td>
</tr>
<tr>
<td>S1  Bar graphs of boys and girls</td>
<td>51</td>
</tr>
<tr>
<td>T1A Bar graph: cartons sold Monday</td>
<td>52</td>
</tr>
<tr>
<td>T1B Bar graph: cartons sold for week</td>
<td>53</td>
</tr>
<tr>
<td><strong>Geometry</strong></td>
<td></td>
</tr>
<tr>
<td>I1  Map of city blocks</td>
<td>54</td>
</tr>
<tr>
<td>I6  Which figure made with straight sides</td>
<td>55</td>
</tr>
<tr>
<td>J1  Shapes in hexagon</td>
<td>56</td>
</tr>
<tr>
<td>J2  Which does not show symmetry</td>
<td>57</td>
</tr>
<tr>
<td>K1  Which number in square but not in triangle</td>
<td>58</td>
</tr>
<tr>
<td>K8  Rectangle divided into four parts</td>
<td>59</td>
</tr>
<tr>
<td>L3  Objects on game board grid</td>
<td>60</td>
</tr>
<tr>
<td>L5  Edges of cube</td>
<td>61</td>
</tr>
<tr>
<td>M4  Coordinates of dot on grid</td>
<td>62</td>
</tr>
<tr>
<td>T5  Cut-out shape</td>
<td>63</td>
</tr>
<tr>
<td><strong>Patterns, Relations, and Functions</strong></td>
<td></td>
</tr>
<tr>
<td>I7  Number sentence for pages</td>
<td>64</td>
</tr>
<tr>
<td>J5  Operation to get B from A</td>
<td>65</td>
</tr>
<tr>
<td>K3  Multiply by five</td>
<td>66</td>
</tr>
<tr>
<td>K6  How many tiles in next figure</td>
<td>67</td>
</tr>
<tr>
<td>L4  Shapes in a pattern</td>
<td>68</td>
</tr>
<tr>
<td>L9  True statement of ages</td>
<td>69</td>
</tr>
<tr>
<td>M9  Make number sentence true</td>
<td>70</td>
</tr>
<tr>
<td>U4  Next number in pattern</td>
<td>71</td>
</tr>
<tr>
<td>Content Domain</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td><strong>Patterns and Relationships</strong></td>
<td></td>
</tr>
<tr>
<td>M012048 Symbolic linear equation of magazines</td>
<td>72</td>
</tr>
<tr>
<td>M031220 Rob sold some of his apples</td>
<td>73</td>
</tr>
<tr>
<td>M031249 The value of 37 times box plus 6</td>
<td>74</td>
</tr>
<tr>
<td>M011027 Complete number pattern</td>
<td>75</td>
</tr>
<tr>
<td>M031023 The number to go in the center of the table</td>
<td>76</td>
</tr>
<tr>
<td>M031051 The daily start times for a movie</td>
<td>77</td>
</tr>
<tr>
<td>M031190 Output of the number machine</td>
<td>78</td>
</tr>
<tr>
<td><strong>Data</strong></td>
<td></td>
</tr>
<tr>
<td>M012126 Heights of four girls on graph</td>
<td>79</td>
</tr>
<tr>
<td>M011009 Bar graph: which shows 45 bottles</td>
<td>80</td>
</tr>
<tr>
<td>M011012 Bar graph: which two show 80 bottles</td>
<td>81</td>
</tr>
<tr>
<td>M012078 Highest temperature on chart</td>
<td>82</td>
</tr>
<tr>
<td>M031264 Colors of students’ hair on the graph</td>
<td>83</td>
</tr>
<tr>
<td>M031265 How many more pencils than rulers sold</td>
<td>84</td>
</tr>
<tr>
<td>M031333 High and low temperatures for a week</td>
<td>85</td>
</tr>
<tr>
<td>M031315 The favorite ice creams of 30 students</td>
<td>86</td>
</tr>
<tr>
<td><strong>Geometry</strong></td>
<td></td>
</tr>
<tr>
<td>M011014 Congruent figures</td>
<td>87</td>
</tr>
<tr>
<td>M031267 Shade in two triangles of different sizes</td>
<td>88</td>
</tr>
<tr>
<td>M031327 Draw a line on the grid parallel to line L</td>
<td>89</td>
</tr>
<tr>
<td>M012069 Rotated 3-dimensional figure</td>
<td>90</td>
</tr>
<tr>
<td>M011006 Which has flat and curved surface</td>
<td>91</td>
</tr>
<tr>
<td>M011022 Statements about triangle</td>
<td>92</td>
</tr>
<tr>
<td>M031269 Indicates geometric shapes in the picture</td>
<td>93</td>
</tr>
<tr>
<td>M031347A Geometry tiles: black triangle</td>
<td>94</td>
</tr>
<tr>
<td>M031347B Geometry tiles: black square</td>
<td>95</td>
</tr>
<tr>
<td>M031347C Geometry tiles: fraction shaded</td>
<td>96</td>
</tr>
<tr>
<td>M031272A Draw line on rectangle/2 triangles</td>
<td>97</td>
</tr>
<tr>
<td>M031272B Draw line on rectangle/2 rectangles</td>
<td>98</td>
</tr>
<tr>
<td>M031272C Draw line on rectangle/1 rectangle, 2 triangles</td>
<td>99</td>
</tr>
<tr>
<td><strong>Measurement</strong></td>
<td></td>
</tr>
<tr>
<td>M011023 Weight of an adult</td>
<td>100</td>
</tr>
<tr>
<td>M012023 Units to measure mass of egg</td>
<td>101</td>
</tr>
<tr>
<td>M031338 Which could equal 150 milliliters</td>
<td>102</td>
</tr>
<tr>
<td>M011005 Which has largest area</td>
<td>103</td>
</tr>
<tr>
<td>M031008 The length of the films</td>
<td>104</td>
</tr>
<tr>
<td>M011013 How much did temperature rise</td>
<td>105</td>
</tr>
<tr>
<td>M031322 Draw a triangle with AB as the base</td>
<td>106</td>
</tr>
<tr>
<td>M012065 Distance on map</td>
<td>107</td>
</tr>
<tr>
<td>M031298 Complete the figure with an area of 13 cm²</td>
<td>108</td>
</tr>
<tr>
<td>M011017 When is Mary’s trip</td>
<td>109</td>
</tr>
<tr>
<td>M011025 Perimeter of rectangle</td>
<td>110</td>
</tr>
<tr>
<td>M031097 Betty’s average driving speed</td>
<td>111</td>
</tr>
<tr>
<td>M031178 George practiced soccer 6 days a week</td>
<td>112</td>
</tr>
<tr>
<td>M011010 Volume of stack of cubes</td>
<td>113</td>
</tr>
<tr>
<td><strong>Number</strong></td>
<td></td>
</tr>
<tr>
<td>M011008 Sum of two numbers with decimals</td>
<td>114</td>
</tr>
<tr>
<td>M011015 Subtraction with decimals</td>
<td>115</td>
</tr>
<tr>
<td>M011020 Fraction to decimal</td>
<td>116</td>
</tr>
<tr>
<td>M031348A Geometry Tiles: 1/2 black</td>
<td>117</td>
</tr>
<tr>
<td>M031348B Geometry Tiles: 5/8 black</td>
<td>118</td>
</tr>
<tr>
<td>M012119 Fraction of cake left</td>
<td>119</td>
</tr>
<tr>
<td>M031065 1/3 of 600 balls in a box</td>
<td>120</td>
</tr>
<tr>
<td>M031216 What fraction of cake John ate</td>
<td>121</td>
</tr>
<tr>
<td>M011001 Which figure has one-half black dots</td>
<td>122</td>
</tr>
<tr>
<td>M011016 3 of 4 squares shaded</td>
<td>123</td>
</tr>
<tr>
<td>M012044 Figure showing fraction of shaded square</td>
<td>124</td>
</tr>
<tr>
<td>M031108 Maria collected soft drink bottles</td>
<td>125</td>
</tr>
<tr>
<td>M011019 Number rounded to 600</td>
<td>126</td>
</tr>
<tr>
<td>M011021 Which number is it</td>
<td>127</td>
</tr>
<tr>
<td>M011024 Express number in words</td>
<td>128</td>
</tr>
<tr>
<td>M011028 Which number is equal</td>
<td>129</td>
</tr>
<tr>
<td>M031305 15 times 9</td>
<td>130</td>
</tr>
<tr>
<td>M031306 204 divided by 4</td>
<td>131</td>
</tr>
<tr>
<td>M031130 The number Lia should add to 142 to get 369</td>
<td>132</td>
</tr>
<tr>
<td>M031341 1279 plus 243 by mistake</td>
<td>133</td>
</tr>
<tr>
<td>M011002 Total number of boys and girls</td>
<td>134</td>
</tr>
<tr>
<td>M011003 Total number of pencils</td>
<td>135</td>
</tr>
<tr>
<td>M011011 How long to wash windows</td>
<td>136</td>
</tr>
<tr>
<td>M012117 Estimate number of cabbages</td>
<td>137</td>
</tr>
<tr>
<td>M031011 Notebooks for 115 students</td>
<td>138</td>
</tr>
<tr>
<td>M031310 A 204 cm rope cut into 4/calculation</td>
<td>139</td>
</tr>
<tr>
<td>M031345A Number tiles: largest number (+)</td>
<td>140</td>
</tr>
<tr>
<td>M031345B Number tiles: largest number (-)</td>
<td>141</td>
</tr>
<tr>
<td>M031345C Number tiles: largest number (X)</td>
<td>142</td>
</tr>
<tr>
<td>M011004 Number represented by squares</td>
<td>143</td>
</tr>
<tr>
<td>M011007 Which has same value</td>
<td>144</td>
</tr>
<tr>
<td>M011018 Digit in hundreds place</td>
<td>145</td>
</tr>
<tr>
<td>M011026 Which is true?</td>
<td>146</td>
</tr>
<tr>
<td>M031162 Number going in the number line box</td>
<td>147</td>
</tr>
<tr>
<td>M031344A Number tiles: get to 20 using 2,7,9</td>
<td>148</td>
</tr>
<tr>
<td>M031344B Number tiles: get to 20 using 1,3,6</td>
<td>149</td>
</tr>
<tr>
<td>M031344C Number tiles: get to 20 using 1,4,6</td>
<td>150</td>
</tr>
</tbody>
</table>