Learn-to-Solve Word Problems

There are 3 cats on a mat. Each cat has 2 spots. How many spots do the cats have altogether?

1. Which picture would help you solve this problem?
   - A.  
   - B.  
   - C.  

2. How many spots does each cat have?
   - A. 2
   - B. 9
   - C. 10

3. Which shows a way to solve this problem?
   - A. skip count by twos: 2 + 2 + 2
   - B. skip count by threes: 3 + 3 + 3
   - C. skip count by ones: 1 + 1 + 1

4. How many spots do the cats have altogether?
   - A. 2
   - B. 3
   - C. 6

Learn-to-Solve Word Problems

A present can be wrapped with the wrapping paper shown. The present has 6 sides. The wrapping paper has 6 different color panels. Each panel covers one side of the present. How many panels would cover 3 presents?

1. How many panels of wrapping paper cover 1 present?
   - A. 6 panels
   - B. 12 panels
   - C. 18 panels

2. Which shows how many panels would cover 2 presents?
   - A. 6 + 6
   - B. 6 + 6 + 6
   - C. 6 + 3

3. Which number sentence shows how many panels would cover 3 presents?
   - A. 6 + 6
   - B. 6 + 6 + 6
   - C. 6 + 3

4. How many panels of wrapping paper would cover 3 presents?
   - A. 6
   - B. 12
   - C. 18
Learn-to-Solve Word Problems

Ms. Gupta has 8 boxes of crayons. Each box has 10 crayons in it. How many crayons does Ms. Gupta have in all?

1. Which is NOT true?
   - A. The crayons are in the boxes.
   - B. There are 10 crayons in each box.
   - C. There are 10 boxes of crayons.

2. What is a way to solve this problem?
   - A. Skip count the crayons by 8.
   - B. Skip count the boxes by 10.
   - C. Subtract the number of crayons from the number of boxes.

3. Which of these could you use to solve the problem?
   - A. $10 + 8$
   - B. $10 + 10 + 10 + 10 + 10 + 10 + 10$
   - C. $8 + 8 + 8 + 8 + 8 + 8 + 8$

4. How many crayons does Ms. Gupta have in all?
   - A. 80
   - B. 10
   - C. 8

Learn-to-Solve Word Problems

Mr. Williams wants to put a fence around his rectangular garden. He has already completed two sides. He used 3 sections of fence on one side, and 4 sections of fence on another side. How many sections of fence will Mr. Williams’ garden have when he’s finished?

1. What is this problem asking you about?
   - A. the area of Mr. Williams’ garden
   - B. the perimeter of Mr. Williams’ garden
   - C. the weight of Mr. Williams’ garden

2. How many sections of fence has Mr. Williams put up so far?
   - A. 3 sections
   - B. 4 sections
   - C. 7 sections

3. How many more sections of fence does Mr. Williams need to finish the fence around his garden?
   - A. 4 sections
   - B. 7 sections
   - C. 14 sections

4. How many sections of fence will Mr. Williams’ garden have when he’s finished?
   - A. 14 sections
   - B. 7 sections
   - C. 4 sections
Learn-to-Solve Word Problems

Keith has 5 boxes of crackers. Each box has 25 crackers in it. How many crackers does Keith have altogether?

1. There are ___ crackers in each box.
   - A. 5
   - B. 25
   - C. 50

2. To solve this problem, you could skip count by
   - A. 25s
   - B. 50s
   - C. 100s

3. Which number sentence shows a way to solve the problem?
   - A. 5 + 5 + 5 + 5
   - B. 25 + 5
   - C. 25 + 25 + 25 + 25 + 25

4. How many crackers does Keith have altogether?
   - A. 25
   - B. 125
   - C. 100

Sophie has a math book with a cover that is 6 inches long and 4 inches wide. What is the area of the cover of her math book?

1. What is the surface you’re asked about in this problem?
   - A. the pages in Sophie’s math book
   - B. the cover of Sophie’s math book
   - C. the inside of Sophie’s math book

2. How can you find the area of a surface?
   - A. length + length + width + width
   - B. length + width
   - C. length x width

3. Which number sentence could help you find the area of the cover of the math book?
   - A. 6 + 6 + 4 + 4
   - B. 6 x 4
   - C. 6 + 4

4. What is the area of the cover of the math book?
   - A. 6 square inches
   - B. 16 square inches
   - C. 24 square inches
Learn-to-Solve Word Problems

Numbers and Operations

A math, history, and science book are on a table. The math book has 475 pages, the history book has 207 pages, and the science book has 273 pages. Which book has the fewest pages?

1. Which do you need to compare first?
   - A. the ones place
   - B. the tens place
   - C. the hundreds place

3. Now that you got rid of 475, which place value do you compare next?
   - A. the ones place
   - B. the tens place
   - C. the hundreds place

2. When you compare the digits in the hundreds places, which number can you get rid of because it is a wrong answer?
   - A. You can get rid of 207 because 2 is less than 4.
   - B. You can get rid of 475 because 4 is greater than 2.
   - C. You can get rid of 273 because 2 is less than 7.

4. Which book has the fewest pages?
   - A. the history book
   - B. the science book
   - C. the math book

---

Learn-to-Solve Word Problems

Measurement

A rectangular stage has been covered with 28 square tiles. The stage is 5 tiles long and 4 tiles wide. Each tile is 1 foot long. What is the perimeter of the stage?

1. What is the problem asking you to find?
   - A. the number of tiles needed to cover the stage.
   - B. the area inside of the stage
   - C. the distance around the edge of the stage

2. Which number sentence shows a way to find the perimeter of the stage?
   - A. 5 x 4
   - B. 5 + 5 + 4 + 4
   - C. 5 + 4

3. What is the length of one tile?
   - A. 1 foot
   - B. 14 feet
   - C. 18 feet

4. What is the perimeter of the stage?
   - A. 18 square feet
   - B. 18 feet
   - C. 20 square feet
Learn-to-Solve Word Problems

Numbers and Operations

An airplane flew 3,536 miles on Monday. On Tuesday, it flew 2,235 miles. On Wednesday, the plane flew 3,502 miles. On which day did the plane fly the most miles?

<table>
<thead>
<tr>
<th>Day</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>3,536</td>
</tr>
<tr>
<td>Tuesday</td>
<td>2,235</td>
</tr>
<tr>
<td>Wednesday</td>
<td>3,502</td>
</tr>
</tbody>
</table>

1. Which two days have the same number in the thousands place?
   - A. Monday and Tuesday
   - B. Monday and Wednesday
   - C. Tuesday and Wednesday

2. Compare the hundreds, tens, and ones places for Monday and Wednesday. Which number is greater?
   - A. 502
   - B. 536
   - C. neither—they are the same

3. Which is true?
   - A. 2,235 > 3,502
   - B. 3,502 > 3,536
   - C. 3,502 < 3,536

4. On which day did the plane fly the most miles?
   - A. Monday
   - B. Tuesday
   - C. Wednesday

---

Learn-to-Solve Word Problems

Measurement

Robin measures the temperature of a cup of water with a thermometer as shown. What is the temperature of the water in Fahrenheit rounded to the nearest ten degrees?

1. What side of the thermometer do you need to read to answer this problem?
   - A. Fahrenheit
   - B. Celsius
   - C. neither

2. Which two numbers is the temperature between?
   - A. 30 and 40
   - B. 40 and 50
   - C. 50 and 60

3. Is the temperature line closer to 40 or 50 degrees Fahrenheit?
   - A. 40
   - B. 50
   - C. neither

4. What is the temperature of the water in Fahrenheit to the nearest ten degrees?
   - A. 30 degrees Celsius
   - B. 50 degrees Celsius
   - C. 40 degrees Fahrenheit
Learn-to-Solve Word Problems

Numbers and Operations

One vase can hold 6 flowers. Estimate how many flowers 3 vases can hold.

1. How many flowers can one vase hold?
   - A. 3
   - B. 6
   - C. 9

2. The number 6 is closest to which number?
   - A. 5
   - B. 4
   - C. 3

3. Which shows a way to estimate the flowers in 3 vases?
   - A. 6 + 3
   - B. 5 + 5 + 5
   - C. 3 + 3 + 3

4. Which is a good estimate for how many flowers 3 vases can hold?
   - A. 6
   - B. 3
   - C. 15

Learn-to-Solve Word Problems

Measurement

Aaron measured the temperature of a bowl of soup. The thermometer shows the temperature of the soup. What was the temperature of the soup in Celsius to the nearest ten degrees?

1. What unit is the problem asking for?
   - A. degrees Fahrenheit
   - B. degrees Celsius
   - C. pounds

2. The dashes on the thermometer skip count by ______.
   - A. 10s
   - B. 5s
   - C. 2s

3. What is the number 68 closest to?
   - A. 60
   - B. 70
   - C. 80

4. What was the temperature of Aaron’s soup to the nearest ten degrees?
   - A. 70 degrees Celsius
   - B. 70 degrees Fahrenheit
   - C. 60 degrees Celsius
Learn-to-Solve Word Problems

Numbers and Operations

Sunshine Elementary School has 56 first graders, 38 second graders, and 45 third graders. Estimate how many first and third graders there are altogether in the school.

1. What information will NOT help you solve this?
   - A. the number of first graders.
   - B. the number of second graders
   - C. the number of third graders

2. The number 56 is closest to which number?
   - A. 40
   - B. 50
   - C. 60

3. The number 43 is closest to which number?
   - A. 30
   - B. 40
   - C. 50

4. About how many first and third graders are in the school altogether?
   - A. 100
   - B. 60
   - C. 40

---

Learn-to-Solve Word Problems

Measurement

Mike’s dad told him that if the temperature is 27 degrees Celsius, then it is too hot to go outside. The thermometer shows the temperature outside. Is it too hot for Mike to go outside?

1. Which side of the thermometer should you use in order to solve this problem?
   - A. degrees Fahrenheit
   - B. degrees Celsius
   - C. inches

2. There are 4 small lines between 20° and 30° Celsius. What do those lines represent?
   - A. 21°, 22°, 23°, 24°
   - B. 22°, 24°, 26°, 28°
   - C. 21°, 23°, 25°, 27°

3. The temperature is shown between 24° and 26° Celsius. What is the exact temperature on the thermometer?
   - A. 27 degrees Celsius
   - B. 25 degrees Fahrenheit
   - C. 25 degrees Celsius

4. Is it too hot for Mike to go outside?
   - A. Yes, it's too hot because the thermometer shows that it is more than 27° C outside.
   - B. It's not possible to know from the information given.
   - C. No, it is not too hot because the thermometer shows that it is less than 27° C outside.
Learn-to-Solve Word Problems

Numbers and Operations

A tree has 687 ants and 112 caterpillars living in it. Estimate how many more ants are living in the tree than caterpillars.

1. Which is 687 closest to?
   A. 600
   B. 200
   C. 700

3. How can you estimate how many more ants are in the tree than caterpillars?
   A. subtract: 700 – 100
   B. add: 687 + 112
   C. add: 700 + 100

2. Which is 112 closest to?
   A. 100
   B. 200
   C. 600

4. About how many more ants are living in the tree than caterpillars?
   A. 100
   B. 600
   C. 800

Learn-to-Solve Word Problems

Measurement

Last week it snowed when the temperature outside dropped to 31 degrees Fahrenheit. The thermometer shows the temperature for last Tuesday. Did it snow on Tuesday?

1. At what temperature did it snow?
   A. 31 degrees Fahrenheit or below
   B. 34 degrees Fahrenheit or above
   C. 31 degrees Fahrenheit or above

2. The marks on the thermometer skip count by
   A. 5s
   B. 2s
   C. 10s

3. What is the temperature on the thermometer?
   A. 36 degrees Celsius
   B. 36 degrees Fahrenheit
   C. 31 degrees Fahrenheit

4. Did it snow on Tuesday?
   A. There is not enough information to answer the question.
   B. Yes, it was cold enough.
   C. No, it was not cold enough.
Learn-to-Solve Word Problems

Numbers and Operations

Ani gave Patty 3 flowers. Marcia gave Patty 5 flowers. How many flowers does Patty have now?

1. Which picture would help solve this problem?
   - A.
   - B.
   - C.

2. Which number sentence should you use to solve this problem?
   - A. 3 + 5
   - B. 5 – 3
   - C. 3 + 5

3. How many flowers does Patty have now?
   - A. 2
   - B. 35
   - C. 8

4. What number sentence could you use to check that your answer is correct?
   - A. 5 – 3 = 2
   - B. 8 – 3 = 5
   - C. 5 – 2 = 3

Learn-to-Solve Word Problems

Geometry

Greg was eating crackers with peanut butter. The crackers were flat and had 3 equal sides. What shape were the crackers?

1. Which is NOT needed to solve the problem?
   - A. The crackers were flat.
   - B. Greg was eating the crackers with peanut butter.
   - C. The crackers had 3 equal sides.

2. Which shape has 3 sides?
   - A. square
   - B. triangle
   - C. rectangle

3. Equal sides means the sides
   - A. are the same length
   - B. are not the same length
   - C. form a right angle

4. Which shows the shape of Greg’s crackers?
   - A.
   - B.
   - C.
Learn-to-Solve Word Problems

Malik had 8 pencils. He gave 2 pencils to Sam, and 5 pencils to Jamie. How many pencils did Malik have left for himself?

1. Which number sentence shows how many pencils Malik gave to Sam and Jamie?
   - A. 8 + 2
   - B. 5 – 2
   - C. 5 + 2

2. How many pencils did Malik give away altogether?
   - A. 8
   - B. 7
   - C. 1

3. Which number sentence can you use to find out how many pencils Malik had left for himself?
   - A. 8 – 7
   - B. 7 – 5
   - C. 8 + 7

4. How many pencils did Malik have left for himself?
   - A. 5 pencils
   - B. 1 pencil
   - C. 8 pencils

Learn-to-Solve Word Problems

Danny cut a shape out of paper. The shape has 2 long sides and 2 short sides. What shape did Danny cut—a square, a rectangle, or a triangle?

1. How many sides does Danny’s shape have?
   - A. 4
   - B. 2
   - C. 8

2. Which shape does not have 4 sides?
   - A. square
   - B. rectangle
   - C. triangle

3. Why couldn’t Danny’s shape be a square?
   - A. Squares have 3 sides.
   - B. A square has 4 sides of the same length, but Danny’s shape has sides with different lengths.
   - C. It is impossible to cut paper into a square shape.

4. Which figure shows the shape Danny could have cut?
   - A. rectangle
   - B. triangle
   - C. square
Learn-to-Solve Word Problems

Veronica’s family went on a trip. They drove 23 miles on Friday, rested on Saturday, and drove 36 miles on Sunday. How many miles did Veronica’s family drive in all?

Miles Veronica’s Family Drove

<table>
<thead>
<tr>
<th></th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>23 miles</td>
<td>0 miles</td>
<td>36 miles</td>
</tr>
</tbody>
</table>

1. On which day did Veronica’s family NOT drive?
   - A. Friday
   - B. Saturday
   - C. Sunday

2. Which operation should you use to solve the problem?
   - A. subtraction
   - B. multiplication
   - C. addition

3. Which number sentence shows how to find how many miles Veronica’s family drove on Friday and Sunday?
   - A. 23 + 0 + 26
   - B. 23 + 36
   - C. 36 - 23

4. How many miles did Veronica’s family drive in all?
   - A. 59 miles
   - B. 36 miles
   - C. 23 miles

Learn-to-Solve Word Problems

Tracy has part of a sandwich for lunch in her lunchbox. The sandwich has 3 sides and one right angle. Is her sandwich shaped like a circle, a rectangle, or a triangle?

1. What is a right angle?
   - A. a corner
   - B. a circle
   - C. a square

2. Which of these shapes cannot have any right angles?
   - A. triangle
   - B. rectangle
   - C. circle

3. Can her sandwich be shaped like a rectangle?
   - A. Yes, because the sandwich fit in her lunchbox.
   - B. No, because the sandwich has 3 sides but a rectangle has 4 sides.
   - C. Yes, because the sandwich has a right angle.

4. Which shows the shape of Tracy’s sandwich?
   - A. rectangle
   - B. right triangle
   - C. square
Learn-to-Solve Word Problems

**Numbers and Operations**

There are 22 turtles, 13 fish, and 43 frogs living in a pond in the springtime. How many animals are living in the pond altogether?

1. What information is NOT needed to solve this problem?
   - A. There are 22 turtles.
   - B. There are 13 fish.
   - C. It is springtime.

2. How could you estimate the answer to this problem before solving?
   - A. 30 turtles + 20 fish + 50 frogs = 100 animals
   - B. 20 turtles + 10 fish + 40 frogs = 70 animals
   - C. 20 turtles – 10 fish = 10 animals

3. Which number sentence shows how to solve this problem?
   - A. 22 + 13 + 43
   - B. 22 – 13
   - C. 43 + 5

4. How many animals are living in the pond altogether?
   - A. 22
   - B. 78
   - C. 37

---

Learn-to-Solve Word Problems

**Geometry**

Rohan is learning about traffic signs. Today he saw an octagonal sign. Which sign is an octagon?

1. What does the prefix octa- mean?
   - A. 8
   - B. 5
   - C. 6

2. An octagon always has
   - A. colors
   - B. faces
   - C. sides

3. How many sides does each of the signs have?
   - A. STOP—8, YIELD—3, ONE WAY—4
   - B. STOP—6, YIELD—3, ONE WAY—2
   - C. STOP—1, YIELD—1, ONE WAY—1

4. Which sign is an octagon?
   - A. [ONE WAY]
   - B. [STOP]
   - C. [YIELD]
Learn-to-Solve Word Problems

Numbers and Operations

Mr. Teal has 24 students in his class. The cafeteria has 13 cheese sandwiches, 5 peanut butter and jelly sandwiches, and 11 ham and cheese sandwiches. Does the cafeteria have enough sandwiches for everyone in the class?

1. What is the first step in solving this problem?
   - A. Add up the number of sandwiches.
   - B. Add the number of students to the number of sandwiches.
   - C. Subtract the number of sandwiches from the number of students in the class.

2. Which equation shows how many sandwiches the cafeteria has?
   - A. $24 + 13 + 5 + 11 = 53$
   - B. $13 + 5 + 11 = 29$
   - C. $29 - 24 = 5$

3. Which number sentence shows how to find the difference in how many sandwiches the cafeteria has and how many are needed?
   - A. $29 - 24$
   - B. $24 + 29$
   - C. $19 + 5$

4. Does the cafeteria have enough sandwiches for the students in Mr. Teal’s class?
   - A. No, they need to make 5 more sandwiches.
   - B. Yes, they have 4 extra sandwiches.
   - C. Yes, they have 5 extra sandwiches.

---

Geometry

Isabelle took a break during basketball practice to eat an orange. She noticed that a basketball and an orange are the same shape. What shape are both a basketball and an orange?

1. How many edges do a basketball and an orange have?
   - A. 0
   - B. 2
   - C. 1

2. Which of these does not have edges?
   - A. rectangular prism
   - B. cube
   - C. sphere

3. What shape are both a basketball and an orange?
   - A. cube
   - B. sphere
   - C. rectangular prism

4. Which is also a sphere?
   - A. a globe
   - B. a brick
   - C. a party hat
Learn-to-Solve Word Problems

Numbers and Operations

Jordan has 45 berries in all. He has 15 cherries, 16 strawberries, and some blueberries. How many blueberries does he have?

1. What should you do first to solve this problem?
   - A. Add the total number of berries to the number of blueberries and strawberries.
   - B. Add the number of cherries and strawberries.
   - C. Subtract the number of cherries from the total number of berries.

2. How many cherries and strawberries does Jordan have altogether?
   - A. 31
   - B. 16
   - C. 45

3. Which shows how to find out how many blueberries Jordan has?
   - A. 45 + 31
   - B. 45 – 31
   - C. 45 + 15 + 16

4. How many blueberries does Jordan have?
   - A. 22
   - B. 8
   - C. 14

Learn-to-Solve Word Problems

Geometry

Tran received a present on her birthday. The present was in a box with 6 faces and 12 edges. The edges were not all the same length. What shape was Tran’s present?

1. Which of these does not have 6 faces?
   - A. rectangular prism
   - B. cube
   - C. cone

2. Could Tran’s present be a cube?
   - A. no, because a cube has edges that are all the same length
   - B. yes
   - C. no, because it has faces

3. What shape was Tran’s present?
   - A. rectangular prism
   - B. cube
   - C. cone

4. Which shows the shape of Tran’s present?
   - A.
   - B.
   - C.
Learn-to-Solve Word Problems

A school has 537 students. Of those, 268 are boys. How many students are girls?

1. What are you asked to find?
   - A. how many students in the school are girls
   - B. how many students are in the school
   - C. if there are more boys than girls in the school

2. How could you solve this problem?
   - A. Multiply the number of boys by the number of students in the school.
   - B. Subtract the number of boys from the number of students in the school.
   - C. Add the number of students to the number of boys in the school.

3. Which number sentence could you use to solve this problem?
   - A. 537 - 268
   - B. 537 + 268
   - C. 268 - 537

4. How many students are girls?
   - A. 331
   - B. 268
   - C. 269

Learn-to-Solve Word Problems

Which of these figures has 5 faces and 5 corners?

1. A face is a
   - A. vertex
   - B. flat side
   - C. rounded edge

2. A corner is a
   - A. rounded side
   - B. flat side
   - C. point where 3 or more edges meet

3. Which of these does not have any corners?
   - A. cone
   - B. square pyramid
   - C. cylinder

4. Which figure has 5 faces and 5 corners?
   - A. square pyramid
   - B. cube
   - C. cone
Learn-to-Solve Word Problems

Numbers and Operations

A jungle has 124 birds living in it. There are 314 nests. If 560 more birds migrate to the jungle in the spring, then how many birds will live there in the spring?

1. What are you asked to find?
   - A. how many birds won’t have nests in the spring
   - B. how many birds will live in the jungle in the spring
   - C. how many birds will leave in the spring

2. Which number is NOT needed to solve the problem?
   - A. 124
   - B. 314
   - C. 560

3. Which number sentence could you use to solve the problem?
   - A. 124 + 560
   - B. 560 - 124
   - C. 314 + 124

4. How many birds will live in the jungle in the spring?
   - A. 268
   - B. 560
   - C. 684

Learn-to-Solve Word Problems

Geometry

Tim is looking at a map of his neighborhood. Which two streets in Tim’s neighborhood are parallel?

1. What does intersect mean?
   - A. never touch
   - B. cross over
   - C. curve around

2. Parallel lines
   - A. never intersect
   - B. intersect at a corner
   - C. intersect at least twice

3. Which two streets in Tim’s neighborhood are parallel?
   - A. Apple St. and Samson Ave.
   - B. Main St. and Copper Rd.
   - C. Main St. and Apple St.

4. How do you know that Apple St. and Copper Rd. are not parallel?
   - A. They intersect.
   - B. They never cross over each other.
   - C. They’re on the same map.
**Learn-to-Solve Word Problems**

**Numbers and Operations**

Tina has 8 pieces of candy that she wants to put into 2 bags. How many candies should she put into each bag to make equal groups?

1. What are equal groups?
   - A. groups that have the same number of candies
   - B. groups that have different numbers of candies
   - C. groups that have the same flavor of candies

2. How many equal groups will Tina make?
   - A. 8
   - B. 2
   - C. 10

3. Which equation could help you solve the problem?
   - A. 8 + 8 = 16
   - B. 2 + 2 = 4
   - C. 4 + 4 = 8

4. How many candies should she put in each bag to make equal groups?
   - A. 4
   - B. 8
   - C. 2

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**Learn-to-Solve Word Problems**

**Geometry**

Terry drew a picture of a butterfly. Which part of Terry’s butterfly best represents an angle?

![Butterfly Image](image)

1. An angle is formed by
   - A. 2 straight lines meeting at a common point
   - B. a picture of any animal
   - C. 2 curved lines that go on forever

2. In the picture of Terry’s butterfly, you should look for
   - A. curved lines
   - B. symmetry
   - C. straight lines

3. Which part of Terry’s butterfly best represents an angle?
   - A. Part A
   - B. Part B
   - C. Part C

4. Why is Part A not an angle?
   - A. because it is curved
   - B. because it is straight
   - C. because it is the butterfly’s smile
Learn-to-Solve Word Problems

Numbers and Operations

Pat’s family went on a picnic. There are 7 people in Pat’s family. Each person brought 3 plates of food. How many plates of food were brought to the picnic in all?

1. What is the problem asking you to find?
   - A. how many plates were brought to the picnic
   - B. how many people were at the picnic
   - C. how many people are in Pat’s family

2. Did everyone bring food for the picnic?
   - A. Yes, everyone brought 7 plates of food.
   - B. No, no one brought any food.
   - C. Yes, everyone brought 3 plates of food.

3. Which number sentence will help you solve the problem?
   - A. 7 + 7 + 7 + 7 + 7 + 7 + 7
   - B. 3 + 3 + 3 + 3 + 3 + 3 + 3
   - C. 3 + 3 + 3

4. How many plates of food were brought to the picnic in all?
   - A. 21
   - B. 7
   - C. 3

Learn-to-Solve Word Problems

Geometry

Which two figures shown are congruent?

1. What does congruent mean?
   - A. same size and shape
   - B. same size
   - C. same shape

2. Are all the figures the same shape?
   - A. No, D is a different shape than A, B, and C.
   - B. Yes, they are all the same shape.
   - C. A, B, and C are different shapes.

3. Which two figures are exactly the same size?
   - A. C and D
   - B. A and C
   - C. A and B

4. Which two figures are congruent?
   - A. A and B
   - B. A, B, and C
   - C. A, B and D
Learn-to-Solve Word Problems

Starting on Monday, Juan plans to eat 3 oranges every morning. How many oranges will he have eaten by the end of Thursday?

1. How many days are there from Monday to Thursday?
   - A. 4—Monday, Tuesday, Wednesday, Thursday
   - B. 2—Monday and Thursday
   - C. 1—Monday

2. Which is a way to solve this problem?
   - A. Count the oranges in the picture.
   - B. Add the oranges Juan eats on Monday and Tuesday.
   - C. Multiply the number of days by the number of oranges Juan eats each day.

3. Which does NOT show a way to solve this problem?
   - A. 3 + 3 + 3 + 3
   - B. 3 x 4
   - C. 3 + 6

4. How many oranges will Juan have eaten by the end of Thursday?
   - A. 12
   - B. 4
   - C. 9

Learn-to-Solve Word Problems

Oscar drew a heart on a card he made for his grandma. Where is the line of symmetry on Oscar’s heart?

1. Shapes with one line of symmetry have
   - A. 2 equal parts
   - B. 5 equal parts
   - C. 0 equal parts

2. Does this figure show the heart’s line of symmetry?
   - A. Yes, a line of symmetry can be anywhere.
   - B. Yes, the heart is divided into 2 equal parts.
   - C. No, the heart is divided into 2 parts but they are not equal.

3. Where is the line of symmetry on Oscar’s heart?
   - A. 
   - B. 
   - C. 

4. How could you check to see if you’ve found a line of symmetry?
   - A. Cut the heart into 4 pieces.
   - B. Fold the heart on the line to see if the two sides match.
   - C. Erase the line.
Learn-to-Solve Word Problems

**Numbers and Operations**

Mark is baking cookies for the school bake sale. He has 4 bowls. He cracked 3 eggs in each bowl. How many eggs did Mark crack altogether?

1. What is a key word in this problem?
   - A. altogether
   - B. Mark
   - C. sale

2. Which operation can you use to solve this problem?
   - A. subtraction
   - B. division
   - C. multiplication

3. Which does NOT show a way to solve this problem?
   - A. 3 + 3 + 3 + 3
   - B. 4 + 3
   - C. 4 x 3

4. How many eggs did Mark crack altogether?
   - A. 7
   - B. 12
   - C. 8

---

Learn-to-Solve Word Problems

**Geometry**

Jaden wrote three capital letters shown below. Which of Jaden’s letters does not have a line of symmetry?

1. Which shows a line of symmetry in the letter W?
   - A. There is no line of symmetry.
   - B. 
   - C. 

2. Which shows a line of symmetry in the letter D?
   - A. There is no line of symmetry.
   - B. 
   - C. 

3. Which shows a line of symmetry in the letter G?
   - A. 
   - B. There is no line of symmetry.
   - C. 

4. Which of Jaden’s letters does not have a line of symmetry?
   - A. W
   - B. D
   - C. G
Learn-to-Solve Word Problems

Jesse has 12 books. She has a bookshelf with 3 shelves. She wants to put the same number of books on each shelf. How many books will go on each shelf?

1. What is Jesse doing with the books?
   - A. dividing them equally
   - B. adding them together
   - C. multiplying her books.

2. Which shows a way to solve the problem?
   - A. 12 ÷ 3
   - B. 12 ÷ 4
   - C. 12 x 3

3. How many books will go on each shelf?
   - A. 6
   - B. 4
   - C. 3

4. Which picture shows Jesse’s shelves?
   - A. [Shelf image]
   - B. [Shelf image]
   - C. [Shelf image]

Learn-to-Solve Word Problems

Look at the balance shown below. If Ms. Rickert removes one square from the balance, how many circles will she need to remove for it to stay balanced?

1. Because both sides of the balance are at the same level, you know that
   - A. the 2 squares weigh more than the 6 circles
   - B. the 2 squares weigh less than the 6 circles
   - C. the 2 squares are equal to the 6 circles

2. There are 2 squares on the balance. To find out how many circles just one square is equal to, you could
   - A. add 2 squares to the 6 circles
   - B. subtract 2 squares from the 6 circles
   - C. divide the 6 circles into 2 groups and see how many circles are in just 1 of those groups

3. One square is equal to
   - A. 1 circle
   - B. 3 circles
   - C. 3 squares

4. If Ms. Rickert removes one square from the balance, how many circles will she need to remove for it to stay balanced?
   - A. 3
   - B. 2
   - C. 1
Learn-to-Solve Word Problems

**Numbers and Operations**

Chris and three friends shared equal parts of a sandwich. What fraction of the sandwich did Chris eat?

1. Which equation shows how many people ate a part of the sandwich?
   - A. $3 + 1 = 4$
   - B. $4 + 1 = 5$
   - C. $1 + 1 = 2$

2. What is the denominator (bottom number) in the fraction?
   - A. the number of equal parts the sandwich was cut into
   - B. the number of pieces Chris ate
   - C. the number of pieces Chris’s friends received

3. What fraction of the sandwich did Chris eat?
   - A. $\frac{3}{4}$
   - B. $\frac{1}{4}$
   - C. $\frac{1}{2}$

4. Which picture of the sandwich is missing the fraction of the sandwich Chris ate?
   - A. [Picture A]
   - B. [Picture B]
   - C. [Picture C]

---

Learn-to-Solve Word Problems

**Algebra**

Mr. Howell wrote the following equation on the board on Monday morning:

$5 + \odot = 7$

What number does $\odot$ represent?

1. What information is NOT needed to solve this problem?
   - A. on Monday morning
   - B. $5 + \odot$
   - C. $= 7$

2. In Mr. Howell’s equation, $\odot$ represents a
   - A. minus sign
   - B. happy child
   - C. number

3. What number does $\odot$ represent?
   - A. 5
   - B. 2
   - C. 7

4. Which of the following can you use to check your answer?
   - A. $7 - 2 = 5$
   - B. $7 + 2 = 9$
   - C. $5 - 2 = 3$
Learn-to-Solve Word Problems

Numbers and Operations

Joy had 3 cookies. She ate 2 of them. What fraction of the cookies does Joy have left?

1. What should the denominator (bottom number) of the fraction be?
   - A. 3—the number of cookies Joy started with
   - B. 2—the number of cookies Joy ate
   - C. 1—the number of cookies Joy has left

2. How many cookies does Joy have left?
   - A. She has 1 left of the 3 cookies.
   - B. She has 2 left of the 3 cookies.
   - C. She has 0 because she ate all of the cookies.

3. What fraction of the cookies does Joy have left?
   - A. \(\frac{1}{3}\)
   - B. \(\frac{2}{3}\)
   - C. \(\frac{1}{2}\)

4. Which picture shows the fraction of the cookies Joy has left?
   - A.
   - B.
   - C.

Learn-to-Solve Word Problems

Algebra

Desmond drew the pattern shown below. What will be the 8th figure in Desmond’s pattern?

1. What happens to each new figure in Desmond’s pattern?
   - A. The figure stays the same.
   - B. The figure always points down.
   - C. The figure turns.

2. How many figures has Desmond drawn so far?
   - A. 8
   - B. 6
   - C. 14

3. What will be the 7th figure in Desmond’s pattern?
   - A.
   - B.
   - C.

4. What will be the 8th figure in Desmond’s pattern?
   - A.
   - B.
   - C.
Learn-to-Solve Word Problems

Numbers and Operations

Bennett cut a pie into 6 equal slices. He sprinkled sugar on \( \frac{1}{3} \) of the slices. How many of the 6 slices had sugar sprinkled on them?

1. Which diagram could help you solve this problem?
   - A.
   - B.
   - C.

2. This question is asking for a fraction equivalent to \( \frac{1}{3} \). One-half of six is
   - A. 4
   - B. 2
   - C. 3

3. The denominator in the answer is
   - A. 6, because the total number of slices is 6
   - B. 2, because \( \frac{1}{2} \) of the slices have sugar
   - C. 3, because that is half of six

4. How many of the 6 slices had sugar sprinkled on them?
   - A. 2
   - B. 3
   - C. 6

Learn-to-Solve Word Problems

Algebra

What shape comes next in the pattern shown?

1. What are the shapes in the pattern?
   - A. triangles and circles
   - B. triangles and squares
   - C. circles and squares

2. What is the repeated part of the pattern?
   - A. △ △ △ △
   - B. △ △ △ △
   - C. △ △

3. Which matches the pattern shown?
   - A. ab ab a___
   - B. aab, aab, a___
   - C. abc abc a____

4. What shape comes next in the pattern shown?
   - A. square
   - B. triangle
   - C. circle
Learn-to-Solve Word Problems

Numbers and Operations

Daniel and Alley each have the same candy bar. Daniel ate one-half of his. Alley ate one-fourth of hers. Who ate more of the candy bar?

1. What fraction did Alley eat?
   A. \(\frac{1}{4}\)
   B. \(\frac{1}{2}\)
   C. \(\frac{1}{3}\)

3. Is \(\frac{1}{2}\) greater than \(\frac{1}{4}\)?
   A. No, \(\frac{1}{4}\) is greater than \(\frac{1}{2}\) because 4 is greater than 2.
   B. Yes, \(\frac{1}{2}\) is greater than \(\frac{1}{4}\) because when you divide a candy bar into 2 parts, the parts are bigger than if you divide the candy bar into 4 parts.
   C. No, they are the same.

2. What fraction did Daniel eat?
   A. \(\frac{1}{4}\)
   B. \(\frac{1}{2}\)
   C. \(\frac{1}{3}\)

4. Who ate more of the candy bar?
   A. Daniel
   B. Alley
   C. They ate the same amount.

Learn-to-Solve Word Problems

Algebra

Lee ate 2 cherries on Monday, 5 cherries on Tuesday, 8 cherries on Wednesday, and 11 cherries on Thursday. If this pattern continues, how many cherries will Lee eat on Friday?

1. The numbers in the pattern are
   A. staying the same
   B. decreasing
   C. increasing

3. How many more cherries does Lee eat each day than the day before?
   A. 3
   B. 2
   C. 5

2. Which shows how to get from 2 to 5?
   A. 2 + 2
   B. 2 + 3
   C. 2 + 11

4. How many cherries will Lee eat on Friday?
   A. 14
   B. 11
   C. 5
Learn-to-Solve Word Problems

Numbers and Operations

Kelly gets paid a dime for walking 1 dog. She walked 7 dogs this week. How much money did she earn this week?

1. How much is a dime worth?
   - A. 10 cents
   - B. 5 cents
   - C. 25 cents

2. How many dimes did Kelly earn this week?
   - A. 1
   - B. 10
   - C. 7

3. Which is NOT a way to solve this problem?
   - A. 10 x 7
   - B. 7 + 10
   - C. 10 + 10 + 10 + 10 + 10 + 10

4. How much money did Kelly earn this week?
   - A. 70 cents
   - B. 7 cents
   - C. 10 cents

Learn-to-Solve Word Problems

Algebra

Mr. Henry’s class is stacking chairs after school. They make 4 stacks of chairs. Each stack has 1 more chair than the stack before it. The 1st stack has 2 chairs. How many chairs are in the 3rd stack?

1. The number of chairs is
   - A. staying the same
   - B. decreasing
   - C. increasing

2. How many chairs are in the 2nd stack?
   - A. 1 chair
   - B. 2 chairs
   - C. 3 chairs

3. Which number sentence shows how to find how many chairs are in the 3rd stack?
   - A. 1 + 2
   - B. 3 + 3
   - C. 3 + 1

4. How many chairs are in the 3rd stack?
   - A. 2 chairs
   - B. 4 chairs
   - C. 5 chairs
Learn-to-Solve Word Problems

Numbers and Operations

Marcus has 3 quarters and 2 dimes in his pocket. How much money does he have?

1. How much is 1 quarter worth?
   - A. 10 cents
   - B. 5 cents
   - C. 25 cents

2. How much is 1 dime worth?
   - A. 1 cent
   - B. 10 cents
   - C. 5 cents

3. Which does NOT show a way to find how much money Marcus has?
   - A. 25¢ + 25¢ + 25¢ + 10¢ + 10¢
   - B. 75¢ + 10¢
   - C. 75¢ + 20¢

4. How much money does Marcus have?
   - A. 95 cents
   - B. 25 cents
   - C. 10 cents

Learn-to-Solve Word Problems

Algebra

Dorothy earns stickers for each day she does her homework. On Monday she earns 3 stickers, on Tuesday 5 stickers, and on Wednesday 7 stickers. If the pattern continues, how many stickers will she earn on Friday?

<table>
<thead>
<tr>
<th>Day of the week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stickers</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

1. Which number sentence shows how to get from 3 to 5—the first step in the pattern?
   - A. 3 + 2 = 5
   - B. 3 – 2 = 5
   - C. 3 + 3 = 6

2. What is the rule in this pattern?
   - A. Add all the stickers together.
   - B. Subtract 2 from the number of stickers the day before.
   - C. Add 2 to the number of stickers from the day before.

3. How many stickers will Dorothy earn on Thursday?
   - A. 7
   - B. 9
   - C. 11

4. How many stickers will Dorothy earn on Friday?
   - A. 7
   - B. 9
   - C. 11
Learn-to-Solve Word Problems

Numbers and Operations

Ice cream costs $1.00. Leo has 1 quarter, 3 dimes, 5 nickels, and 2 pennies. Does he have enough to buy ice cream?

1. How much money is 3 dimes worth?
   - A. 15 cents
   - B. 30 cents
   - C. 3 cents

2. How much money is 5 nickels worth?
   - A. 25 cents
   - B. 5 cents
   - C. 15 cents

3. Which does NOT show a way to find how much money Leo has?
   - A. 25¢ + 10¢ + 10¢ + 10¢ + 5¢ + 5¢ + 5¢ + 5¢ + 5¢ + 1¢ + 1¢
   - B. 25¢ + 30¢ + 25¢ + 2¢
   - C. 25¢ + 10¢ + 10¢ + 10¢ + 5¢ + 5¢ + 5¢ + 1¢ + 1¢

4. Does Leo have enough to buy ice cream?
   - A. No, he only has 82¢ so he needs more money.
   - B. Yes, he has exactly enough—1 dollar.
   - C. Yes, he has enough plus 5 cents extra.

Learn-to-Solve Word Problems

Algebra

Mr. Mellor is putting sheets of paper in folders. He puts 480 sheets in the 1st folder, 240 sheets in the 2nd folder, 120 sheets in the 3rd folder, and 60 sheets in the 4th folder. If this pattern continues, how many sheets will he put in the 5th folder?

1. The number of sheets in each folder is
   - A. staying the same
   - B. decreasing
   - C. increasing

2. Which shows a way to get from 480 to 240?
   - A. 480 + 2
   - B. 480 - 120
   - C. 480 + 4

3. What operation can you perform each time to find the number of sheets in the next folder?
   - A. Divide the number of sheets by 2.
   - B. Divide the number of sheets by 4.
   - C. Subtract 120 from the number of sheets.

4. How many sheets will Mr. Mellor put in the 5th folder?
   - A. 15
   - B. 30
   - C. 6
Learn-to-Solve Word Problems

**Numbers and Operations**

Gia bought a book for $4.16. She gave the person at the cash register a $5 bill. How much change did Gia receive?

1. Why did Gia receive change?
   - A. She paid more than the price of the book.
   - B. She paid less than the price of the book.
   - C. She paid exactly the price of the book.

2. Which number sentence shows how to find the change Gia received?
   - A. $5.00 - $4.16
   - B. $4.16 - $5.00
   - C. $5.00 - $4.00

3. Which shows how to subtract to solve this problem?
   - A. $5.00 - $4.16 = $0.84
   - B. $4.16 - $1.16
   - C. $5.00 - $5.00

4. How much change did Gia receive?
   - A. $0.16
   - B. $0.84
   - C. $0.72

---

Learn-to-Solve Word Problems

**Data, Statistics, and Probability**

The graph shows how many birds Kenny saw each day at the park over the weekend. On which day did he see the most birds?

1. What does the graph show?
   - A. the birds in the sky
   - B. the number of birds at the park last month
   - C. the number of birds Kenny saw on two different days

2. Kenny saw more birds on the day that has
   - A. the taller bar
   - B. the shorter bar
   - C. no bar—you can’t tell from this graph

3. On which day did Kenny see the most birds?
   - A. He saw the same number of birds on both days.
   - B. Sunday
   - C. Saturday

4. How many birds did Kenny see on Saturday?
   - A. 8
   - B. 5
   - C. 3
Learn-to-Solve Word Problems

Numbers and Operations

Laquita cleaned out under her bed and found the following coins:

What is the total amount of money Laquita found?

1. What is a key word in this problem?
   - A. bed
   - B. Laquita
   - C. total

3. Which number sentence can you use to solve this problem?
   - A. $0.25 + $0.25 + $0.10 + $0.10 + $0.05 + $0.01
   - B. $0.25 + $0.10 + $0.05 + $0.01
   - C. $0.75 + $0.06

2. What operation should you use to solve this problem?
   - A. subtraction
   - B. addition
   - C. multiplication

4. What is the total amount of money Laquita found?
   - A. $1.01
   - B. $1.01
   - C. $1.25

Learn-to-Solve Word Problems

Data, Statistics, and Probability

Matthew reads for at least 15 minutes every day. Last week, Matthew recorded the number of minutes he read each day in a table. On which day did Matthew read for 35 minutes?

<table>
<thead>
<tr>
<th>Day of the week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minutes Read</td>
<td>26</td>
<td>26</td>
<td>15</td>
<td>35</td>
<td>32</td>
</tr>
</tbody>
</table>

1. What does the table show?
   - A. Matthew’s favorite days to read
   - B. Matthew’s favorite time to read
   - C. how long Matthew read each day

3. On how many days did Matthew read for 35 minutes?
   - A. 5
   - B. 3
   - C. 1

2. How many days are shown on the table?
   - A. 5
   - B. 3
   - C. 4

4. On which day did Matthew read for 35 minutes?
   - A. Wednesday
   - B. Thursday
   - C. Friday
Learn-to-Solve Word Problems

Measurement

Shea went to her friend’s house at 4 o’clock. Which clock shows the time Shea went to her friend’s house?

1. The hour hand is
   - A. the shorter hand
   - B. the longer hand
   - C. neither hand

2. At 4 o’clock, the hour hand is pointing to the
   - A. 12
   - B. 5
   - C. 4

3. O’clock means the minute hand is pointing to the
   - A. 4
   - B. 12
   - C. 5

4. Which clock shows the time Shea went to her friend’s house?
   - A. A
   - B. B
   - C. C

Learn-to-Solve Word Problems

Data, Statistics, and Probability

Stephanie collects baseball cards. She buys a few new cards each month. The graph shows how many cards Stephanie bought in the spring. In which month did she buy the fewest baseball cards?

1. How can you tell if something is more or less on this graph?
   - A. You cannot tell.
   - B. Compare the heights of the bars.
   - C. Check the weather for the 3 months shown.

2. Which month has the shortest bar?
   - A. March
   - B. April
   - C. May

3. During which month did Stephanie buy the fewest baseball cards?
   - A. April
   - B. March
   - C. May

4. How many cards did Stephanie buy in April and how do you know?
   - A. 3—because the April bar rises to 3
   - B. 7—because the April bar rises to 7
   - C. 1—because the April bar rises to 1
Learn-to-Solve Word Problems

**Kimya’s art class started at 3:35 p.m. Her class was 1 hour long. What time did her class end?**

1. Which shows the time Kimya’s class started?
   - A. 2:35 p.m.
   - B. 3:30 p.m.
   - C. 4:35 p.m.

2. How many minutes passed during Kimya’s class?
   - A. 15 minutes
   - B. 30 minutes
   - C. 60 minutes

3. What time did Kimya’s class end?
   - A. 3:35 p.m.
   - B. 4:35 p.m.
   - C. 1:00 p.m.

4. Did the minute hand move during Kimya’s class?
   - A. No, it did not move.
   - B. No, only the hour hand moved.
   - C. Yes, it moved all the way around the clock and came back to the same place.

---

**Data, Statistics, and Probability**

The pictograph shows how many runs were scored during a baseball team’s last 4 games. How many runs were scored during Game 2?

---

Game 1

Game 2

Game 3

= 2 runs

1. What information will NOT help you solve this?
   - A. the rows in the graph for Game 1 and Game 3
   - B. the row in the graph for Game 2
   - C. the key on the side of the graph

2. Which describes a way to solve this problem?
   - A. Add the pictures for Games 1, 2, and 3 together.
   - B. Count the pictures in the row for Game 2.
   - C. Count the pictures in the row for Game 2 and multiply by 2.

3. How many runs did the team score during Game 2?
   - A. 5
   - B. 6
   - C. 9

4. Why would 3 runs not be a reasonable answer?
   - A. Each picture stands for more than 1 run. So, 3 pictures must stand for more than 3 runs.
   - B. There are 3 pictures in the row for Game 2.
   - C. It is not possible to score 3 runs during a baseball game.
Learn-to-Solve Word Problems  Measurement

Jeremy's morning swim class began at 8:45 and ended at 9:30. How many minutes long was his class?

1. Which shows the best way to use skip counting to determine the answer?
   - A. 15 minutes
   - B. 45 minutes
   - C. 1 hour 15 minutes

2. How many minutes long was Jeremy's swim class?
   - A. 15 minutes
   - B. 45 minutes
   - C. 1 hour 15 minutes

3. A classmate subtracts 8:45 from 9:30 and gets 0:85. Is 85 minutes a reasonable answer?
   - A. Yes, it is a reasonable answer.
   - B. No, because you cannot use a number greater than 60 to describe a number of minutes. A reasonable answer would be 1 hour 25 minutes.
   - C. No, because 8:45 to 9:30 is one hour, so 8:45 to 9:30 is less than 1 hour.

Learn-to-Solve Word Problems  Data, Statistics, and Probability

A clown gave away balloons on each day of a carnival. She gave away 12 balloons on Friday and 14 on Saturday. On Sunday, the clown gave away 6 more balloons than on Saturday. Which tally chart correctly shows how many balloons she gave away?

1. The clown gave away balloons on ______.
   - A. Friday, Saturday, and Sunday
   - B. Friday and Saturday
   - C. Friday, Saturday, and Monday

2. How many balloons are represented by this: J
   - A. 1
   - B. 5
   - C. 10

3. Which shows how many balloons she gave away on Sunday?
   - A. 34
   - B. 14 + 6 = 20
   - C. 13 + 12 = 25

4. Which tally chart correctly shows how many balloons the clown gave away?
   - A. Neither chart shows how many balloons the clown gave away.
   - B. Chart 2
   - C. Chart 1
Learn-to-Solve Word Problems

Measurement

Linda’s school day ended at 2:35 p.m. She finished her homework 2 hours and 14 minutes later. At what time did Linda finish her homework?

1. How many hours elapsed between the end of school and the time she finished her homework?
   - A. 35
   - B. 14
   - C. 2

2. Which number sentence shows a way to find what the minute hand is pointing to when Linda finished her homework?
   - A. 14 + 35
   - B. 35 – 14
   - C. 14 + 14

3. How could you solve this problem?
   - A. Count back 2 hours and 14 minutes from 2:35 p.m.
   - B. Count ahead 2 hours and 25 minutes from 2:35 p.m.
   - C. Count ahead 2 hours and 14 minutes from 2:35 p.m.

4. What time did Linda finish her homework?
   - A. 2:35
   - B. 4:49
   - C. 4:50

Learn-to-Solve Word Problems

Data, Statistics, and Probability

The table below shows the number of students in each third grade class at Pine Elementary School. Ms. Green’s class has 20 students. How many ☺'s should be shown for Ms. Green’s class?

<table>
<thead>
<tr>
<th>Teacher</th>
<th>Mr. Hendrix</th>
<th>Ms. Green</th>
<th>Ms. Roads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>☺☺☺☺</td>
<td>☺☺☺☺</td>
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<td>Each ☻ stands for 5 students</td>
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1. What is NOT needed to solve the problem?
   - A. the name of the school
   - B. how many students one ☻ stands for
   - C. the number of students in Ms. Green’s class

2. How many students does one ☻ stand for?
   - A. 10
   - B. 20
   - C. 5

3. Which shows the number of students in Ms. Green’s class?
   - A. 5 + 5
   - B. 5 + 5 + 5 + 5
   - C. 5 + 5 + 5

4. How many ☻'s should be shown for Ms. Green’s class?
   - A. 20
   - B. 4
   - C. 5
**Learn-to-Solve Word Problems**

**Measurement**

Silvia planted a seed on Monday at 4:00 p.m. It sprouted exactly 48 hours later. On what day and at what time did Silvia’s seed sprout?

1. How many hours are in 1 day?
   - A. 24 hours
   - B. 14 hours
   - C. 48 hours

2. What day and time was it 24 hours after Silvia planted the seed?
   - A. Monday, 4:00 p.m.
   - B. Tuesday, 4:00 a.m.
   - C. Tuesday, 4:00 p.m.

3. Which equation could help you solve the problem?
   - A. 48 hours + 48 hours = 4 days
   - B. 24 hours + 24 hours = 48 hours
   - C. 12 hours + 36 hours = 48 hours

4. What day and time was it when the seed sprouted?
   - A. Wednesday, 4:00 p.m.
   - B. Tuesday, 4:00 p.m.
   - C. Thursday, 4:00 p.m.

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**Learn-to-Solve Word Problems**

**Data, Statistics, and Probability**

Ms. Grom asked all of her students which pet they like best. The graph shows the pets her students like best. How many more students like cats than like fish?

1. What are you asked to compare?
   - A. the height of the students bar and the pets bar
   - B. the height of the fish bar and the dogs bar
   - C. the height of the cats bar and the fish bar

2. How many students like cats and how do you know?
   - A. 5—because the cats bar goes to 5
   - B. 7—because the cats bar goes to 7
   - C. 3—because the cats bar goes to 3

3. Which number sentence shows a way to solve the problem?
   - A. 5 - 3
   - B. 7 - 3
   - C. 3 + 5

4. How many more students like cats than like fish?
   - A. 4
   - B. 3
   - C. 10
Learn-to-Solve Word Problems

Today is December 5 and Eric’s birthday is on December 17. It is sunny outside today. How many more days are there until Eric’s birthday?

1. What information is NOT needed to find the answer?
   - A. Today is December 5.
   - B. It is sunny outside today.
   - C. Eric’s birthday is December 17.

2. What operation is best to use to solve this problem?
   - A. multiplication
   - B. addition
   - C. subtraction

3. This problem is best answered with which units?
   - A. years
   - B. weeks
   - C. days

4. How many more days are there until Eric’s birthday?
   - A. 5
   - B. 12
   - C. 17

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Learn-to-Solve Word Problems

Julia’s aunt gave her a bag with 2 kinds of fruit inside. She has 4 grapes and 7 blueberries in the bag. Is it likely, unlikely, or impossible that Julia will pull out 2 apple slices from the bag?

1. What information is needed to solve the problem?
   - A. Julia’s favorite fruits
   - B. who gave Julia the bag
   - C. the number of each kind of fruit in the bag

2. What fruits are in the bag?
   - A. apples and grapes
   - B. grapes and blueberries
   - C. blueberries and apples

3. How many apple slices are in the bag?
   - A. 2
   - B. 0
   - C. 4

4. What is the chance that Julia will pull out 2 apple slices from her bag?
   - A. impossible
   - B. unlikely
   - C. likely
Learn-to-Solve Word Problems

Measurement

Trey used a leaf to help him measure a ladybug and a lizard as shown below. Which animal is shorter?

1. What is something you can do to solve this problem?
   - A. Count the number of leaves under each animal.
   - B. Add the leaves.
   - C. Count only the leaves under the lizard.

3. How long is the lizard?
   - A. 1 leaf long
   - B. 6 leaves long
   - C. 7 leaves long

2. How long is the ladybug?
   - A. 1 leaf long
   - B. 6 leaves long
   - C. 7 leaves long

4. Which animal is shorter?
   - A. They are the same size.
   - B. the lizard
   - C. the ladybug

Learn-to-Solve Word Problems

Data, Statistics, and Probability

Latika has a bag of buttons. There are 8 blue buttons, 1 pink button, and 1 black button in the bag. She reaches into the bag and pulls one out without looking. What describes the chance that she pulled out a blue button—certain, likely, or unlikely?

1. How many buttons are there altogether?
   - A. 10
   - B. 8
   - C. 2

3. What color are most of the buttons?
   - A. black
   - B. pink
   - C. blue

2. Is it possible that Latika will pull out a button that is not blue?
   - A. No, it's not possible because all of the buttons are blue.
   - B. Yes—it's possible to pull out a pink or black button.
   - C. No, it's not possible because there are so many blue buttons.

4. What are the chances that she pulled out a blue button?
   - A. unlikely
   - B. likely
   - C. certain
Learn-to-Solve Word Problems

**Measurement**

Blake measures crayons from a box using the inch side of a ruler. How many inches long are three crayons lined up tip to end?

1. What unit is Blake using to measure the crayon?
   - A. a ruler
   - B. centimeters
   - C. inches

2. How long is one crayon?
   - A. 3 inches
   - B. 6 inches
   - C. 9 inches

3. How long are three crayons lined up tip to end?
   - A. 3 inches
   - B. 6 inches
   - C. 9 inches

4. Which could NOT be a measurement for a broken crayon?
   - A. 1 inch, because it's less than the length of a whole crayon.
   - B. 3 inches, because it's the length of a whole crayon.
   - C. 2 inches, because it's less than the length of a whole crayon.

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**Data, Statistics, and Probability**

Ron has a box of lollipops. There are 7 red lollipops and 3 blue lollipops in the box. If he reaches into the box without looking, what is the likelihood that he will choose a blue lollipop?

1. How many lollipops in the box are red?
   - A. 12
   - B. 5
   - C. 7

2. How many lollipops in the box are blue?
   - A. 3
   - B. 7
   - C. 12

3. Are there more red or blue lollipops in the box?
   - A. red
   - B. blue
   - C. There is an equal number of red and blue lollipops.

4. What is the likelihood that Ron will choose a blue lollipop?
   - A. likely
   - B. unlikely
   - C. impossible
Learn-to-Solve Word Problems

A book and an apple are weighed on the balance scale below. Which weighs less?

1. What is a balance scale used for?
   - A. to measure the length of objects
   - B. to measure the volume of objects
   - C. to weigh objects

2. How can you tell if an object is lighter (weighs less) than another object on a balance scale?
   - A. The lighter object is higher than the heavier object.
   - B. The lighter object is lower than the heavier object.
   - C. Both objects are at the same height.

3. Is the apple higher than the book?
   - A. yes
   - B. no
   - C. They are at the same height.

4. Which weighs less—the book or the apple?
   - A. The book weighs less.
   - B. The apple weighs less.
   - C. The apple is smaller.

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Learn-to-Solve Word Problems

Kelly has 9 pencils in her book bag—6 pencils are yellow, 2 are green, and 1 is blue. What is the likelihood that she will pull out a black pencil from her book bag?

1. What are the colors of the pencils in Kelly's book bag?
   - A. red, blue, yellow
   - B. yellow and green
   - C. blue, green, and yellow

2. How many black pencils are in Kelly's book bag?
   - A. 1
   - B. 0
   - C. 6

3. Can Kelly pull out a black pencil from her book bag?
   - A. No
   - B. Yes
   - C. Yes, she can pick 1.

4. What is the likelihood that she will pull out a black pencil from her book bag?
   - A. unlikely
   - B. likely
   - C. impossible
Learn-to-Solve Word Problems

Measurement

Ray runs the 50-meter dash in a race. How many centimeters long is the 50-meter dash?

1. How many centimeters are in one meter?
   - A. 10
   - B. 25
   - C. 100

2. How many meters does Ray run?
   - A. 5 meters
   - B. 10 meters
   - C. 50 meters

3. Which number sentence could you use to solve the problem?
   - A. 50 meters x 100 centimeters per meter
   - B. 25 centimeters x 100 centimeters per meter
   - C. 100 centimeters x 100 centimeters per meter

4. How many centimeters long is a 50-meter dash?
   - A. 50 meters
   - B. 10,000 centimeters
   - C. 5,000 centimeters

Learn-to-Solve Word Problems

Data, Statistics, and Probability

Grant always wears socks. He has worn all of the white socks he owns. Today he only has black socks left in his sock drawer. What are the chances that he will pull out black socks from his drawer today?

1. What color socks did Grant have to start?
   - A. He does not wear socks.
   - B. blue and green
   - C. white and black

2. Does he have any white socks left in the drawer?
   - A. No, he has worn them all.
   - B. Yes, he does.
   - C. Yes, he has a few left.

3. What color socks does Grant have in the sock drawer today?
   - A. white
   - B. black
   - C. both black and white

4. What describes the chance that he will pull out black socks from his drawer today?
   - A. unlikely
   - B. certain
   - C. impossible