

Practicing for the TerraNova



How can this booklet help?

A note to families

In the booklet you hold now, there is a practice TerraNova. This test is a simulation of the test students take at the end of the third grade. It can be used at any point during the year, but it is best taken at the end of the school year, just before the real test.



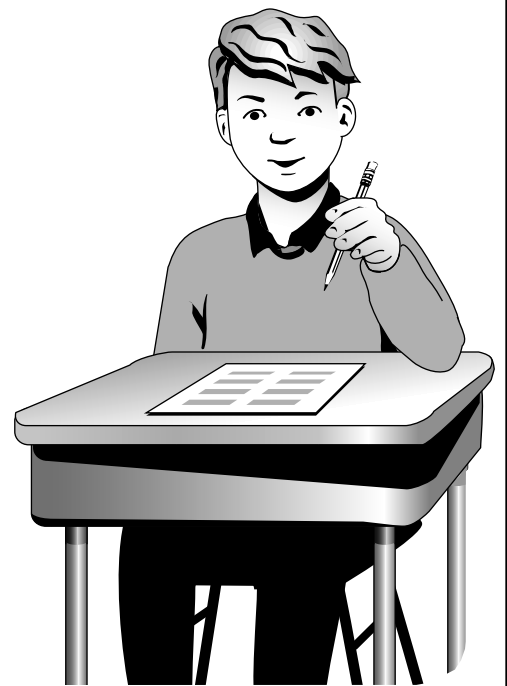
What do I need to know about the TerraNova?

The mathematics TerraNova that you will take at the end of this year is a timed test. What does this mean for you?

- ★ While the TerraNova is a timed test, it is designed such that you should have enough time to finish all items without rushing. If you get frustrated, bored, or lose concentration, just take a deep breath, relax, and continue working.
- ★ There will be about 50 questions for you to answer.
- ★ If you get to a question that seems really hard, just do your best and move on. Don't let yourself get stuck for too long.

Another important thing to remember is that on the TerraNova, there is no penalty for guessing.

- ★ You should always do your best to answer a question, or eliminate as many wrong answers as you can. But if you haven't narrowed the answer down to one choice, you should still guess. You can only gain points!
- ★ After all, this is a multiple-choice test. The answer is right in front of you. You just need to be able to pick it out!



Bubbles

The TerraNova is a computer-scored test. This means that instead of your teacher correcting your test, a computer will score it. The computer looks at the bubbles in your test booklet that you fill in using a pencil.

Filling in these bubbles is easy. There are some rules you need to follow, though, to be sure that the computer reads your answers correctly.

Fill in each bubble completely, and fill in only one bubble for each question.

If you make a mistake and need to change your answer, be sure to erase completely.

Correct	Incorrect	Incorrect	Incorrect	Incorrect
<input type="radio"/> 2	<input type="radio"/> 2	<input type="radio"/> 2	<input type="radio"/> 2	<input type="radio"/> 2
<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5
<input checked="" type="radio"/> 7	<input checked="" type="radio"/> 7	<input checked="" type="radio"/> 7	<input checked="" type="radio"/> 7	<input checked="" type="radio"/> 7
<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9

Finally, be careful of making pencil marks too close to the answer bubbles. If the computer sees a pencil mark in an answer bubble, it may read it as an answer choice.

You need to be careful about not writing near the answer bubbles or the black bars that run down the inside of the pages. However, you do have lots of extra space in the test booklet that you can use as scratch paper. Don't try to do the math in your head. Use the blank space under the questions to write out number sentences or draw pictures that will help you solve the problem.

How do I tackle a TerraNova question?

- ★ Read the problem.
- ★ Write out what you know in the white areas of the booklet. Use a number sentence, a diagram, a picture, or whatever helps you understand what the problem is asking and what things are involved.
- ★ Solve the problem and match your answer to one of the choices.
- ★ If you can't solve the problem because you don't know what number sentence to write or diagram to draw, then go to the answers. Try to eliminate answers that don't make sense by putting them into the question to see if they fit.

Four sisters are lining up for a picture in order, from tallest to shortest. Tonya is 49 inches tall, Arlene is 52 inches tall, Monica is 65 inches tall, and Hannah is 60 inches tall. Which order should they line up in?

- Tonya, Hannah, Arlene, Monica
- Tonya, Arlene, Hannah, Monica
- Monica, Hannah, Arlene, Tonya
- Monica, Hannah, Tonya, Arlene



How do I make sure I chose the right answer?

Ask yourself these questions:

- ★ Did I use the right pieces of information?

Sometimes you don't need to use all the facts and numbers in the problem.

- ★ Does my answer make sense?

See if your answer should be greater than or less than the numbers in the problem.

- ★ Did I answer the question?

Reread the question to be sure you used the correct operation and understood what the problem asked.

- ★ Did I do the math correctly?

Check your math. Try reversing what you did, using a number sentence from the same family of facts. For example, if you said $49 - 11 = 38$, check your subtraction by adding $38 + 11$. Make sure you regrouped if you needed to. Make sure you lined up the digits properly.

- ★ Did I fill in my answer correctly?

Look at page 6 to see how to do this.

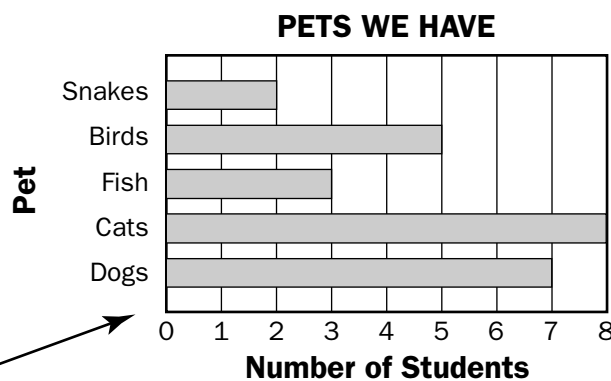
Wanda bought a shirt for \$29.00 and a sweater for \$39.00. About how much did Wanda spend?

- \$50.00
- \$60.00
- \$70.00
- \$80.00

Preparing for the TerraNova

A multiple-choice test can be the easiest kind of a test. Why? Because you know that one of the choices is the right answer. All you have to do is figure out which one it is.

1 How many more students have cats than have birds?



Make sure that you understand the scale on each graph.

Check that you found the correct data in the table.

- 13 *8 cats, 5 birds*
- 8
- 5
- 3

2 Sean spent 10 minutes after school talking with his teacher, 15 minutes on the playground with his friends, and a half hour getting home. If he got home at 3:40 P.M., at what time did school end?

Sometimes one of the answers doesn't make sense. Eliminate that choice right away.

If your answer is not given, check the numbers you copied.

- 2:45 **Write it all out:**
- 3:00 *30 min before 3:45 is 3:15*
- 3:15 *15 min before 3:15 is 3:00*
- 3:40 *10 min before 3:00 is 2:50*

Practicing TerraNova Questions

- ① Lew had 14 packs of seeds. He gave 5 packs to his friends. Which number sentence could you use to find how many packs of seeds Lew had left?

- $14 + 5 = \square$
- $14 \times 5 = \square$
- $14 - 5 = \square$
- $\square - 14 = 5$

Make sure you understand the question.

- ③ Which one of these numbers is greatest?

- 161,311
- 504,505
- 152,259
- 614,289

- ② The picture of the star is folded in half along a line of symmetry. How many points will the star have when the picture is unfolded?



- 3
- 4
- 5
- 6

Write in the white space when you're working on a problem.

- 4 Of the 50 students who are going on the field trip, 36 are already on the bus. How many students still need to get on the bus?

- 4
- 14
- 24
- 86

Estimate to see if your answer makes sense.

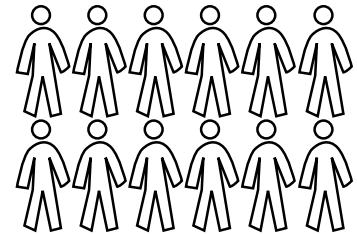
- 5 A store has 4 rows of fish tanks with 5 tanks in each row. How many tanks are there in all?

- 15
- 19
- 20
- 200

Sometimes it helps to draw a picture or a diagram.

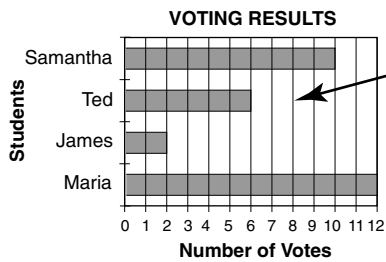
- 6 Mr. Martinez has 12 students that take flute lessons from him. He has his students work in groups of 3 to practice. How many groups are there?

- 3
- 4
- 9
- 15



Use the picture that they've drawn to help you divide or multiply.

- 7 The third graders in Ms. Balfour's class voted for their class representatives. They recorded their results in this bar graph.



Check that you used the correct data from the graph.

How many votes did Maria get?

- 4
- 6
- 12
- 18

- 8 Miki has the following coins in her pocket.



Use the picture. Cross out 60¢, and count how much is left.

She buys a snack for 60¢. Which set of coins shows how much money she has left?

-
-
-
-

Check, please.

Before turning in the test, go back one last time to check.

- I filled in 1 (and only 1!) bubble for each question.
- I checked all my math.
- My answers make sense.

Practice TerraNova: Grade 3

Name: _____

Date: _____

Sample A

Eva has 9 baseball cards. Josh has 14 baseball cards. How many baseball cards do Eva and Josh have in all?

- 19
- 24
- 5
- 23

Sample B

Mark has these coins in his pocket.



How much more money does he need to buy a candy bar for 25¢?

- 3¢
- 7¢
- 8¢
- 4¢

Part I
15 minutes

1 $19 + 7 =$

- 26
- 169
- 23
- 36
- None of these

2 $13 - 4 =$

- 12
- 5
- 15
- 9
- None of these

3
$$\begin{array}{r} 77 \\ - 46 \\ \hline \end{array}$$

- 123
- 120
- 33
- 30
- None of these

4
$$\begin{array}{r} 72 \\ - 45 \\ \hline \end{array}$$

- 31
- 27
- 49
- 42
- None of these

5
$$\begin{array}{r} 7.8 \\ - 1.5 \\ \hline \end{array}$$

- 8.2
- 9.3
- 7.3
- 5.3
- None of these

6 $8 \times 8 =$

- 54
- 49
- 64
- 75
- None of these

7

$18 \div 6 =$

- 27
- 2
- 9
- 11
- None of these

8

At the toy store, a balloon costs \$0.55 and a paddle ball costs \$0.96. What does it cost to buy one balloon and one paddle ball?

- \$1.41
- \$1.14
- \$1.42
- \$1.52
- None of these

9

Shirley has 7 plants in her garden.



Bert has three plants in his garden

Which number sentence shows the total number of plants in Shirley's and Bert's gardens?

- $3 + 3 = 6$
- $7 + 3 = 10$
- $7 - 3 = 4$
- $7 \times 3 = 21$

- 10** Find the number sentence that is true.

- $4 + 0 = 4 - 0$
- $4 + 1 = 4 - 1$
- $4 + 4 = 4 - 4$
- $4 - 2 = 2 - 4$

DIRECTIONS

You do not have to find the exact answers for Numbers 11 and 12. Use estimation to find the best answer.

- 11** Which is closest to the sum of \$7.35 and \$5.62? Use estimation.

- \$2.00
- \$7.00
- \$12.00
- \$13.00

12

Bill's bowling scores	
Monday	89
Tuesday	128
Wednesday	107
Thursday	63

Bill's bowling score on Tuesday was how much higher than his score on Wednesday? Use estimation.

- 10
- 20
- 30
- 40

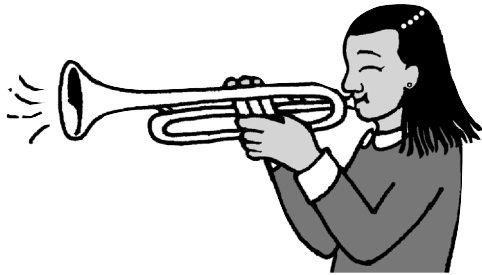
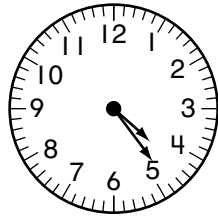
STOP!
Wait for your teacher to tell you to begin Part II.

STOP

Part II

45 minutes

13



The clock tells what time it is now. If Maria has a trumpet lesson at 4:45, how long is it until her trumpet lesson begins?

- 3 minutes
- 5 minutes
- 12 minutes
- 20 minutes

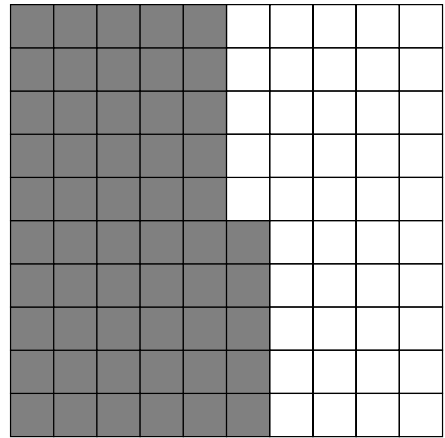
14

Look at the number pattern. What is the rule?

5, 10, 15, 20, 25, 30, 35

- Add 3.
- Add 5
- Multiply by 3.
- Multiply by 5.

15



Look at the boxes. How many of the boxes are shaded?

- 20
- 55
- 95
- 140

16

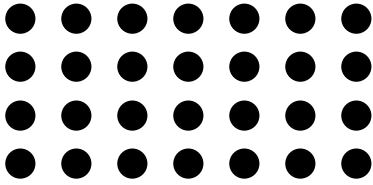
Look at the game board.

A	G	M	O
G	M	O	A
M	O	A	G
O	A	G	M

Suppose Teresa is going to drop a penny on the game board and it is equally likely to land on any of the spaces. What is the probability that the penny will land on a space marked "G"?

- $\frac{1}{2}$
- $\frac{1}{4}$
- $\frac{1}{8}$
- $\frac{1}{16}$

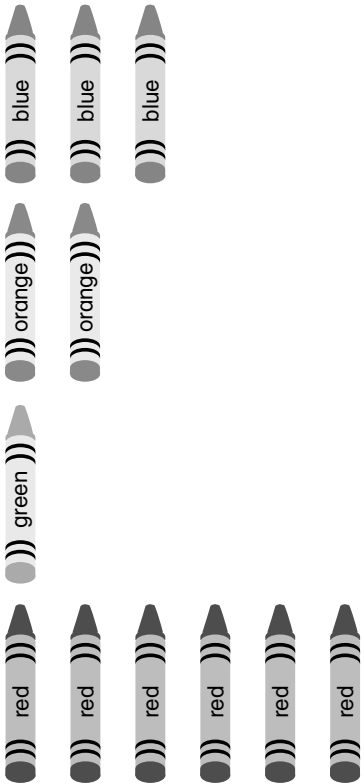
17



Look at the black dots. How many black dots are in the picture?

- 12
- 17
- 28
- 61

18

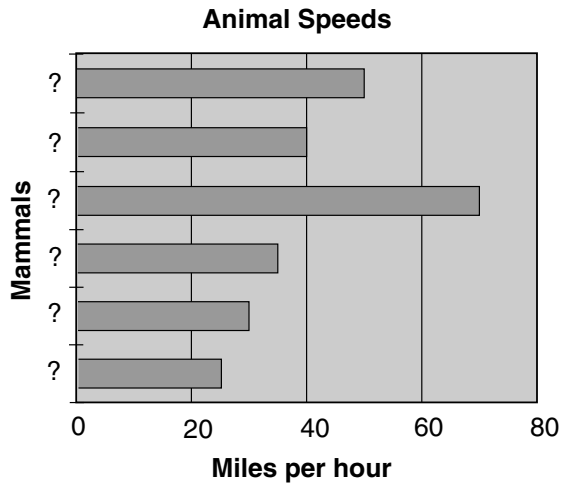


These are the crayons in Lisa's crayon box. How many more red crayons does Lisa have than blue crayons?

- 2
- 3
- 4
- 5

19

Look at the graph. Maya knows that the cheetah is the fastest mammal in the world. How fast can a cheetah run?



- 70 miles per hour
- 25 miles per hour
- 50 miles per hour
- 90 miles per hour

20

Find the word that belongs in the blank.

In the number 5,308, the 3 is in the _____ place.

- thousands
- hundreds
- tens
- ones

21

TRAVEL SECTION

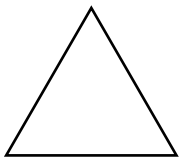
World's Most Beautiful Pool is In Miami

The Venetian Pool with caves and waterfalls is the world's most beautiful pool. It holds eight hundred twenty thousand gallons of water.

Choose the number that tells how many gallons of water are in the world's most beautiful pool.

- 820,000
- 82,000
- 8,020
- 802

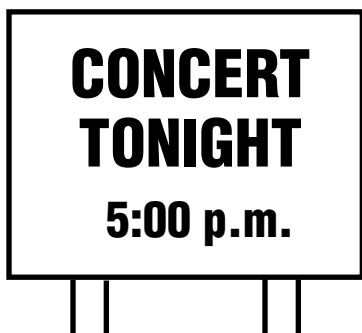
22



Which one of the following names this shape?

- square
- circle
- triangle
- pentagon

23



What do the numbers on the sign tell you?

- how much tickets cost
- who will perform at the concert
- when the concert starts
- where the concert will be held

24

Andy collects baseball cards. He has cards for 17 of the 25 players on his favorite team. How many more cards does he need to complete his collection?

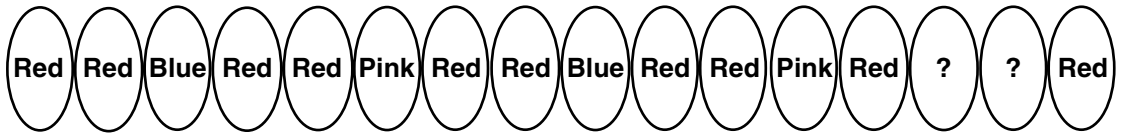
- 1
- 3
- 4
- 8

25

Charlotte has 12 cents in her purse. How many coins could be in her purse?

- two
- four
- six
- seven

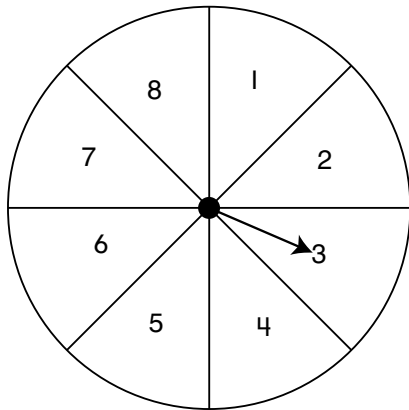
26



Diane made a necklace out of beads. What colors are missing from the pattern made by the beads?

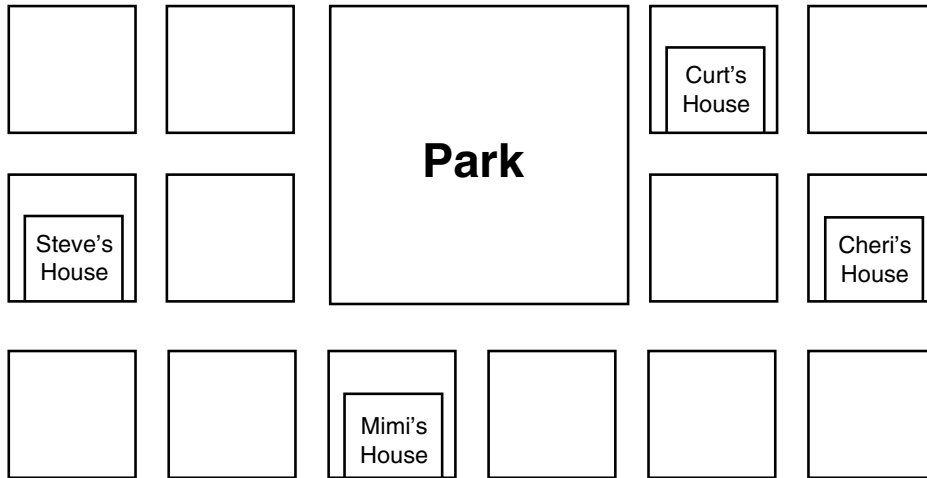
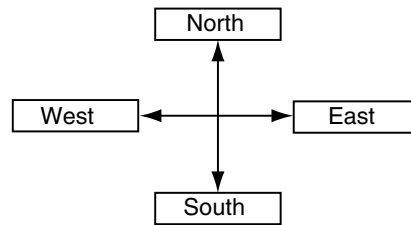
- red and pink
- blue and pink
- red and red
- red and blue

27



Jeff plays a game with the spinner. He spins the spinner twice, then adds the two numbers that the spinner lands on. What is the highest score Jeff can get?

- 9
- 11
- 16
- 25

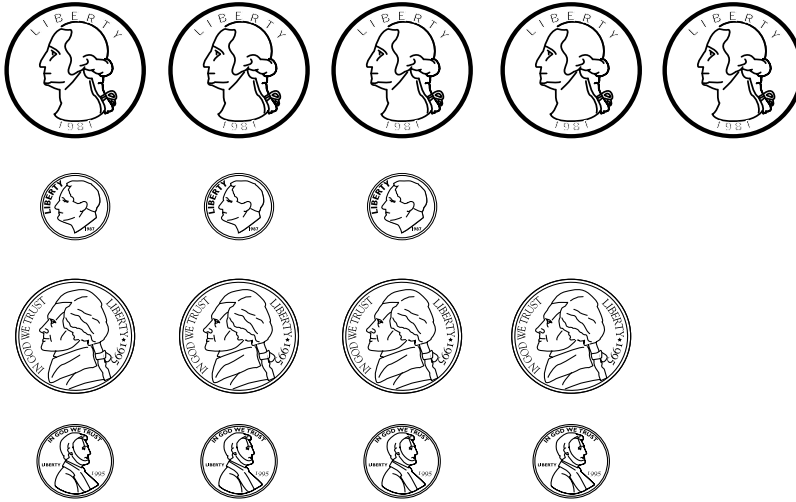


Look at the map. Each square on the map represents one block. If Joe left Curt's house, walked two blocks south, then walked two blocks west, where would he be?

- Cheri's house
- Mimi's house
- Steve's house
- The Park

29

These are the coins in Luis's pocket.



How much money does Luis have in his pocket?

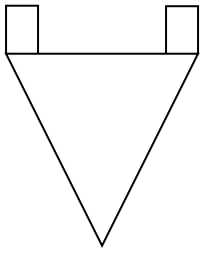
- \$0.53
- \$1.07
- \$1.44
- \$1.79

30

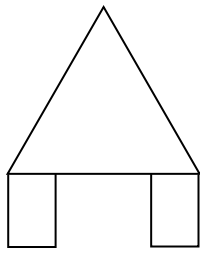
Use the inch side of your ruler to help you solve this problem. Which rectangle is between two and three inches long?

-
-
-
-

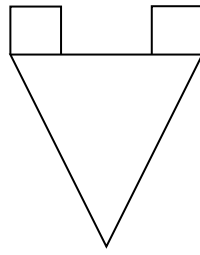
31 Which two figures are the same size and shape?



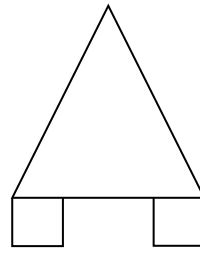
1



2



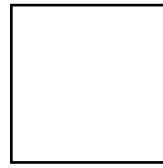
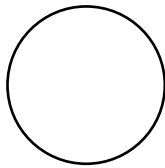
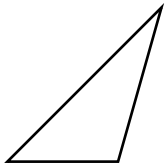
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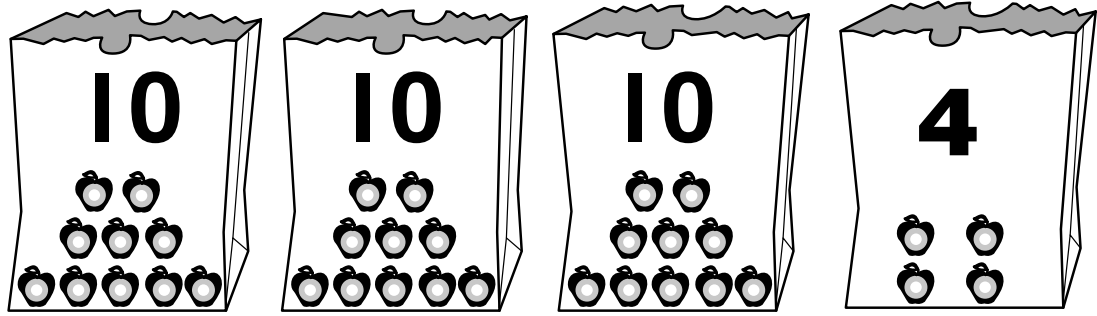


4

- 1 and 3
- 2 and 3
- 2 and 4
- 3 and 4

32 Which shape does **not** have a line of symmetry?





The picture shows how many acorns Emily has. If she gives 11 of her acorns to Paul, how many acorns will she have left?

- 12
- 15
- 23
- 32

34

Use the centimeter side of your ruler to solve this problem:

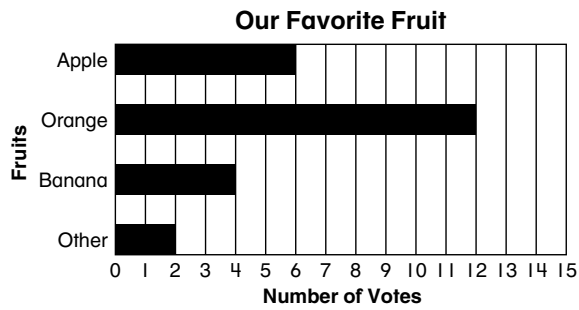


Measure the length of the crayon. How long is the crayon to the nearest centimeter?

- 6 cm
- 8 cm
- 15 cm
- 60 cm

Student opinion poll: Which fruit is best?

Ms. Johnson asked students in her third grade class to vote for their favorite fruit. The graph shows how the students voted. Look at the graph. Then answer numbers 35, 36, and 37.

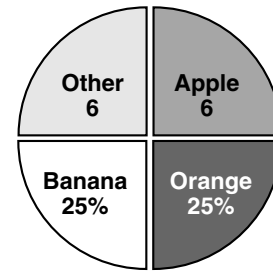


35 How many **more** students voted for apple than banana?

- 2
- 7
- 10
- 12

36

Which of these shows the correct number of votes for apple, orange, banana, and other?



Final Vote Totals	
Apple	10
Orange	5
Banana	8
Other	1

Apple = IIII I
 Orange = III IIII II
 Banana = IIIII
 Other = II

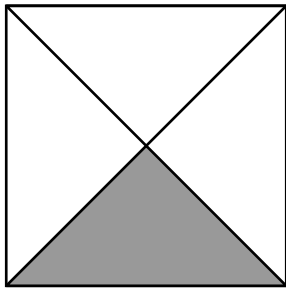
Apple had five votes.
 Orange had ten votes.
 Banana had one vote.
 Other had eight votes.

37

Which number sentence would you use to figure out how many students are in Ms. Johnson's class?

- $6 + 12 - 4 - 2 = 12$
- $(6 \times 12) + (4 \times 2) = 80$
- $6 + 12 - (4 \times 2) = 10$
- $6 + 12 + 4 + 2 = 24$

38



Look at the square. What fraction of the square is shaded?

- $\frac{1}{4}$
- $\frac{1}{3}$
- $\frac{1}{2}$
- $\frac{2}{3}$

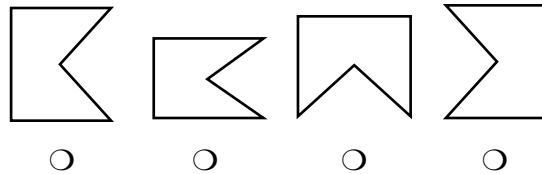
39

Which of these would you most likely use a measuring cup to measure?

- the weight of a toy truck
- the amount of milk in a glass
- the height of a tree
- the length of a table

40

Three of the figures below are the same shape and size. Which one is different?



41

Thousands	Hundreds	Tens	Ones
III	III II	III	III IIII

Which of these is the same as the number in the chart?

- three thousand fifteen
- thirty seven thousand fifty four
- three thousand seven hundred fifty nine
- one thousand fourteen

AT THE RESTAURANT

Look at the bill for the lunch Billy, Sandy, and Marla ate at the restaurant. Then answer numbers 42, 43, and 44.

Lunch Bill

Item	Price
2 slices of pizza	\$2.50
1 small salad	\$2.00
2 french fries	\$2.30
2 milks	\$1.60
1 orange juice	\$0.90

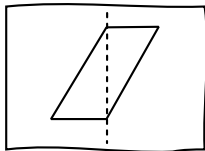
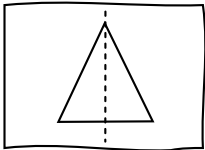
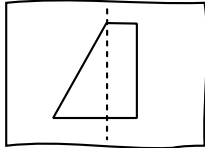
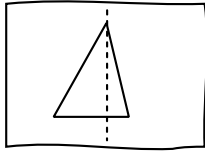
- 42** At this restaurant, one slice of pizza costs
- \$1.25
 - \$0.90
 - \$0.60
 - \$0.40

- 43** What was the most expensive thing that Billy, Sandy, and Marla ordered?
- one slice of pizza
 - one small salad
 - one order of french fries
 - one orange juice

- 44** When the bill came, Billy, Sandy, and Marla decided that each would pay the exact same amount of money. To figure out how much money each person owed, they needed to
- add and multiply
 - subtract and multiply
 - add and subtract
 - add and divide

45

Steve drew four shapes on four pieces of paper. He then folded each piece of paper in half. The dotted lines show where he folded them. Which shape was folded on its line of symmetry?



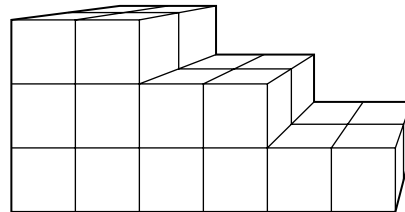
46

JUNE						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

What is the date of the third Wednesday in June?

- June 3
- June 9
- June 17
- June 24

47



The picture shows a staircase made by Tammy. The staircase is made entirely of blocks, and each step is two blocks wide. How many blocks did Tammy use to build this staircase?

- 24
- 20
- 15
- 12

DIRECTIONS

Study the schedule for summer camp activities. After you have read it carefully, answer numbers 48, 49, and 50.

✓ wood carving	9:00 A.M. to 9:35 A.M.
aerobics	9:40 A.M. to 10:10 A.M.
✓ paper folding	10:15 A.M. to 11:00 A.M.
in-line skating	11:00 A.M. to 12:00 A.M.
swimming	12:15 P.M. to 1:30 P.M.
✓ painting	1:40 P.M. to 2:00 P.M.

48 How many minutes long is the swimming period?

- 15 minutes
- 30 minutes
- 40 minutes
- 75 minutes

49 Lonnie has checked all the activities he plans to attend. After woodcarving ends, how long does Lonnie have to wait before his next activity begins?

- 20 minutes
- 40 minutes
- 50 minutes
- 1 hour, 20 minutes

50 Which activity lasts exactly one hour?

- in-line skating
- paper folding
- painting
- swimming