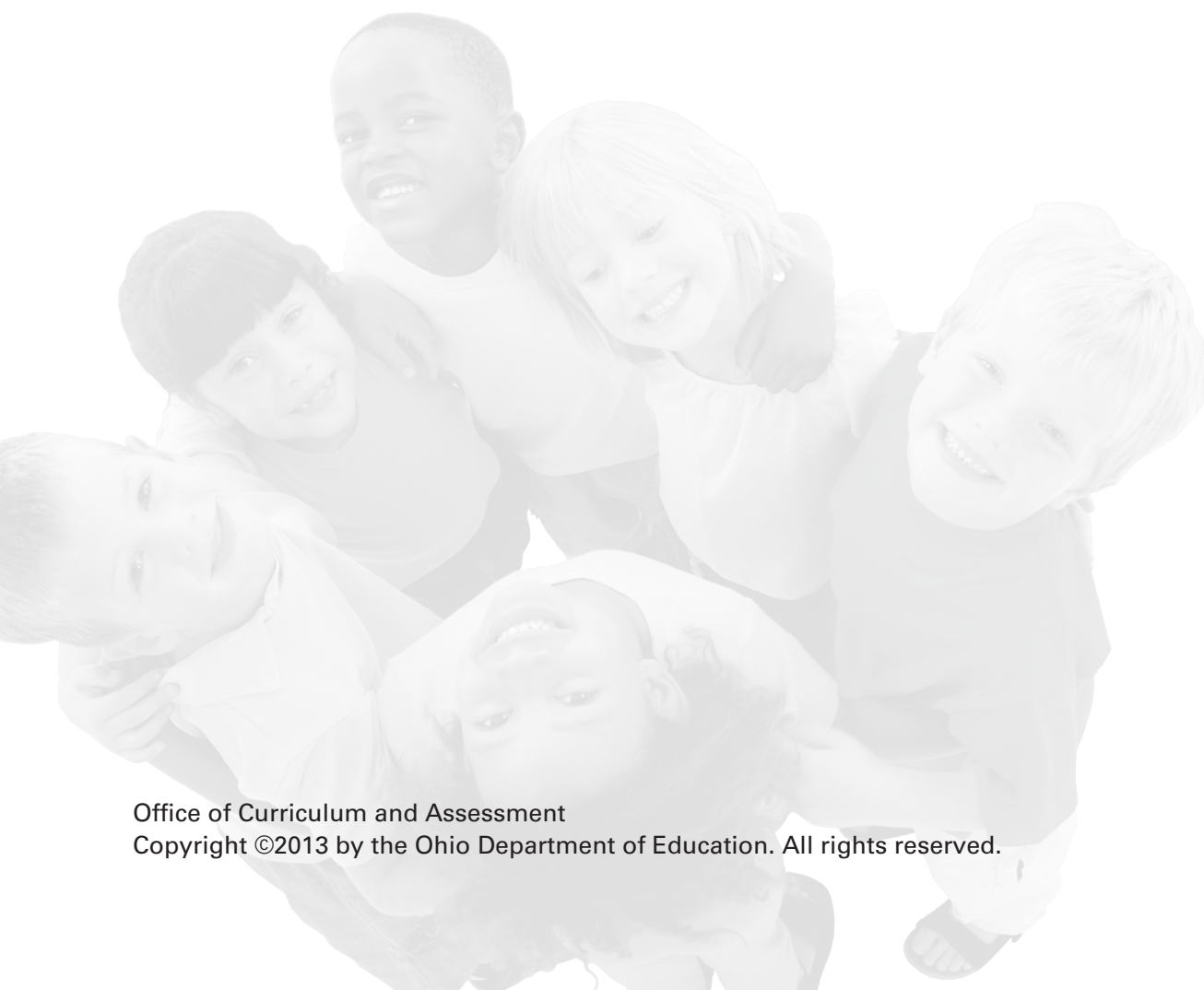


Ohio's Diagnostic Assessments

GRADE 2 MATHEMATICS

Student Booklet

FULL MEASURE



The Ohio Department of Education does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services.

1. Write "five hundred eighty-six" as a number: _____

2. Write "two hundred fifty-three" as a number:

3. There are ones, tens and hundreds places in this number: 846

What digit is in the ones place in 846?

What digit is in the tens place in 846?

What digit is in the hundreds place in 846?



Go to the next page



4. Use the $<$, $>$ or $=$ symbol to compare these two numbers:

981 _____ 989

5. Use the $<$, $>$ or $=$ symbol to compare these two numbers:

542 _____ 489



Go to the next page



6. Measure this paper clip in inches and in centimeters.



Paper clip length: _____ inches

Paper clip length: _____ centimeters

Why is there a difference in the two measures?



-
7. June has 4 bags of candy. There are 3 pieces of candy in each bag.

Show pictures or an equation that would help you solve this problem.

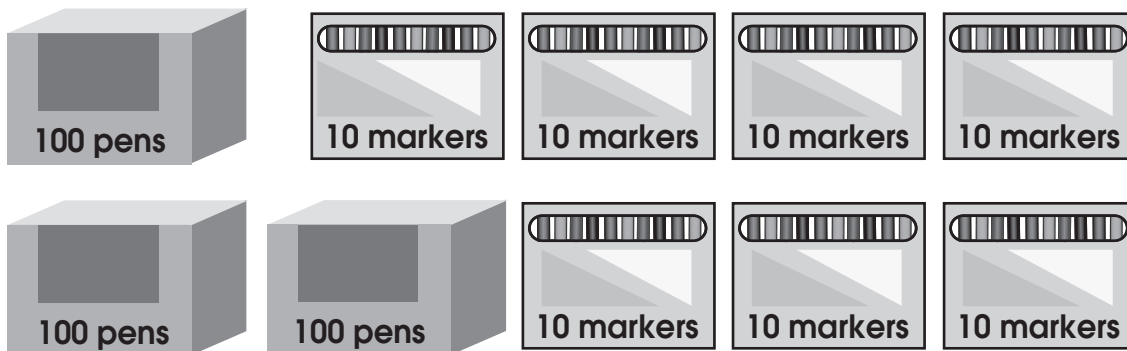


How many pieces of candy does June have altogether?

8. Write 194 in expanded form: _____

9. Write 850 in expanded form: _____

10. Mr. King has boxes that hold 100 pens. He also has packs of 10 markers as shown.



Write the total number of pens and markers:

Write the total number of pens and markers in expanded form:



11. You are going to count up by 5s. Start with 80 and count up by 5s.

80, _____, _____, _____, _____,
_____, _____, _____, _____

12. Solve $56 - 37$.

Show how you found your answer.

13. Solve $13 + 11 + 25$.

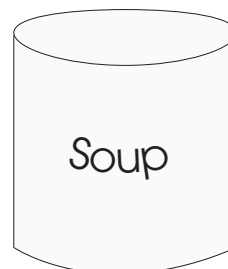
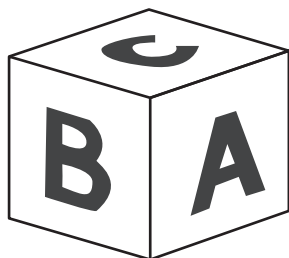
Show how you found your answer.

14. Circle the number that is 100 less than 496.

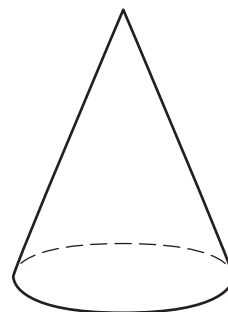
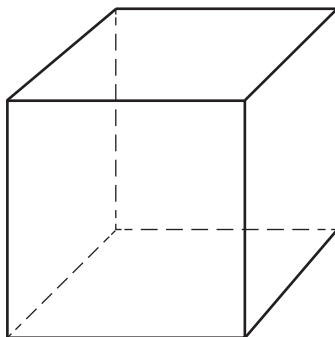
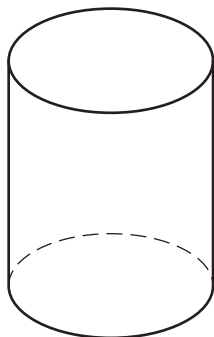
596 396 486



15. Circle the object with the greatest number of edges.



16. Here are three shapes.



A. Circle the cylinder.

B. What is one flat shape needed to make a cylinder?

C. How many of those flat shapes were used?



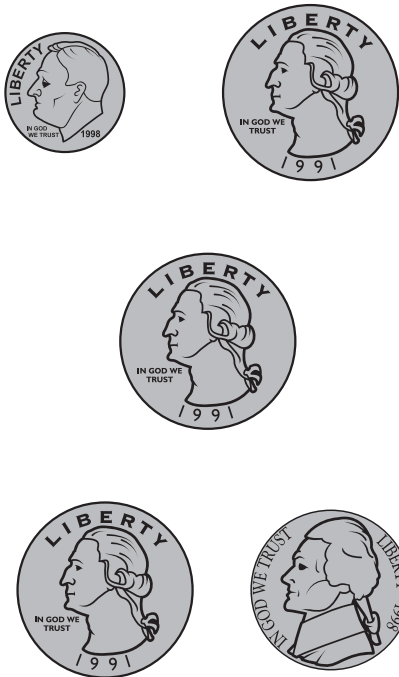
17. The coins show how much Sam earns doing his chores each week.



Using the cent sign (¢), write the amount of money he earned.



18. Alana found these coins in her pocket.



How much money did Alana find?

_____ ¢



19. Lisa found these coins in her pocket.

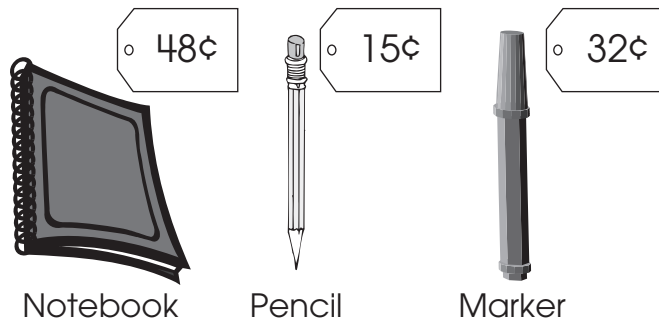


How much money did Lisa find?

Using the cent sign (¢), write the amount of money Lisa found.



20. Mary bought two of these three objects. She spent 47 cents.



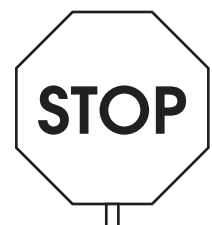
A. Which two objects did she buy?

_____ and _____

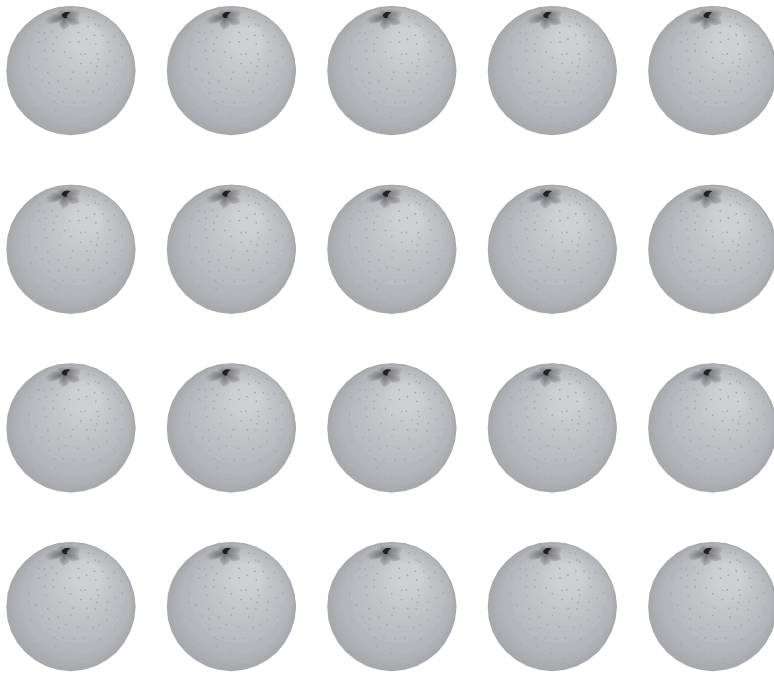
She gave 90 cents to the salesperson.

B. Write an equation that shows how to find the amount of change.

C. Her change was _____.



21. Mrs. Jones has these oranges.



Use the rectangular array to write an equation that shows the number of oranges that Mrs. Jones has.



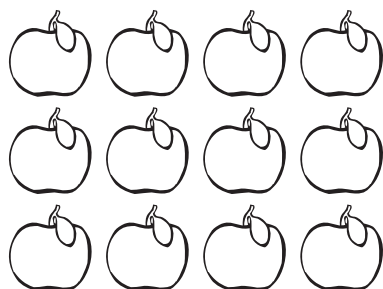
-
22. Brian has 60 marbles. He gave some to his friend and now has 25 marbles left.

Write an equation with a symbol for the unknown number to represent this problem.

Use pictures, numbers, or words to show how many marbles Brian gave his friend.



23. Molly picked the apples shown.



Part A. How many apples did Molly pick? _____

Part B. Circle the word that describes the number of apples she picked.

Odd

Even

Part C. Molly wants to put an equal number of apples into each of two baskets.

How many apples should she put in each basket?

Part D. Show how to find the number of apples in each basket with an equation.



24. Measure this paintbrush in inches.



The paintbrush is _____ inches long.



25. Here is a paintbrush.



Kara will measure this paintbrush in centimeters and in inches.

Would the number of centimeters be more or less than the number of inches?

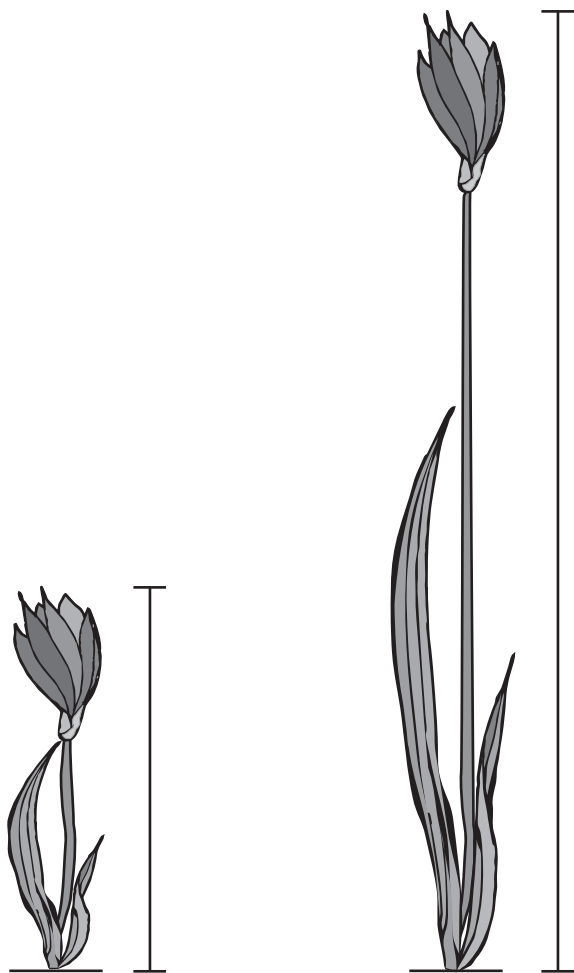
A. Circle your answer.

More Less

B. Explain how you know.



26. Jen and Kim grew these two flowers.



Jen's Flower

Kim's Flower

In inches, how much taller is Kim's flower? _____

Show or explain how you found your answers.



27. Draw a shape with five sides and five angles.

Write the name of your shape:



28. Draw the shape that has three equal sides and three angles.

Write the name of your shape: _____



29. Draw a shape with four sides.

Write the name of your shape: _____

