Student Name _____

Mississippi Curriculum Test, Second Edition

MCT2

GRADE 3

PRACTICE TEST BOOK

MATHEMATICS

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Mathematics

Mark your answers for questions 1–55 on your answer document. Mark only one answer for each question. You may write in your test booklet, but you must mark your answers on your answer document.

1. Shirley's address is two thousand three hundred seventy-five Elm Street.

Which of these shows her address written in standard form?

A. 2357 Elm Street

B. 2375 Elm Street

C. 2735 Elm Street

D. 23705 Elm Street

2. An elephant weighed 3,504 kilograms on its nineteenth birthday. The elephant weighed more on its twentieth birthday.

Which inequality correctly compares the weight of the elephant on its nineteenth and on its twentieth birthday?

F. $3,504 < 3,604$

G. $3,504 < 3,404$

H. $3,504 < 3,304$

J. $3,504 < 3,204$

3. Felicia is saving money to buy a softball bat.

- **The softball bat costs $69.**
- **Felicia has saved $28.**

Which estimate is closest to the amount of money Felicia still needs to save to buy the softball bat?

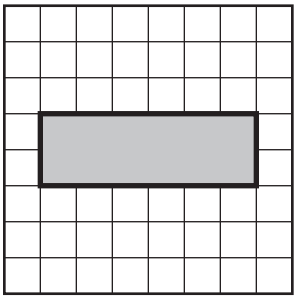
A. $30

B. $40

C. $50

D. $60

4. What is the perimeter of the following rectangle?



F. 2 units

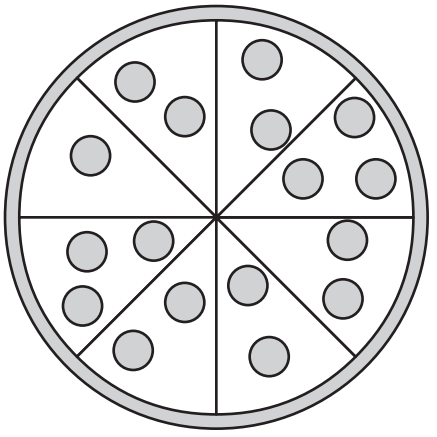
G. 6 units

H. 12 units

J. 16 units

GO ON

5. **Marcos made a pizza for dinner. He cut the pizza into equal-sized slices as shown below.**



Into what equal-sized slices is the pizza cut?

A. Fourths
B. Fifths
C. Sixths
D. Eighths

6. **What is the correct answer?**

$$\begin{array}{r} 4{,}697 \\ +\,1{,}254 \\ \hline \end{array}$$

F. 3,443
G. 5,841
H. 5,951
J. 6,951

7. **Which number pattern follows the rule shown below?**

Add 3 and subtract 1.

A. 4, 7, 6, 9, 8, 11, 10, …
B. 4, 7, 10, 13, 16, 19, 22, …
C. 4, 6, 4, 6, 4, 6, 4, …
D. 4, 6, 5, 7, 6, 8, 7, …

8. **Frank divided all of his marbles into 4 equal groups. The number sentence below can be used to find the total number of marbles Frank has.**

$$\square \div 4 = 16$$

What is the total number of marbles Frank has?

F. 70
G. 64
H. 54
J. 20

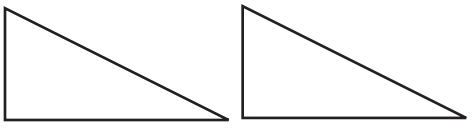
GO ON

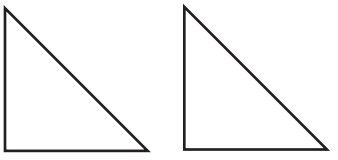
9. **Which property is represented by the number sentence shown below?**

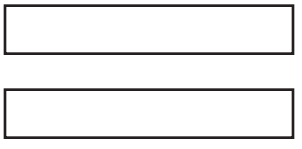
$$25 + 0 = 25$$

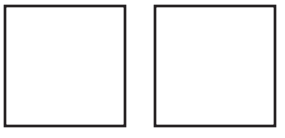
A. Distributive Property
B. Identity Property of Addition
C. Associative Property of Addition
D. Commutative Property of Addition

10. **Which pair of polygons can be used to compose a square?**

F. 

G. 

H. 

J. 

11. **Carrie's favorite shape to draw is a hexagon.**

Which of the following describes a hexagon?

A. A shape with six sides
B. A shape with three sides
C. A shape with five sides
D. A shape with eight sides

12. **The chart shows the colors of blouses and skirts Erica has in her closet.**

Erica's Closet Clothes

Blouse Color	Skirt Color
Blue	Gray
Green	Tan
Pink	White

How many different combinations of 1 blouse and 1 skirt are possible?

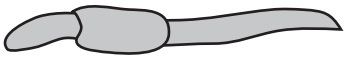
F. 3
G. 6
H. 9
J. 12

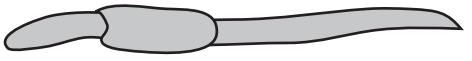
GO ON

13. You may use a ruler to help answer this question.

Michelle found four worms in her garden.

Which worm is closest to $2\frac{1}{2}$ inches long?

A. 

B. 

C.

D.

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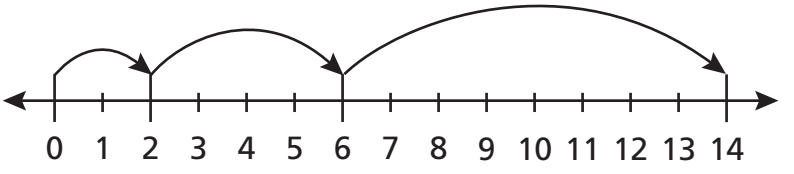
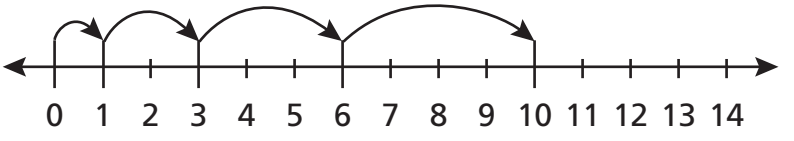
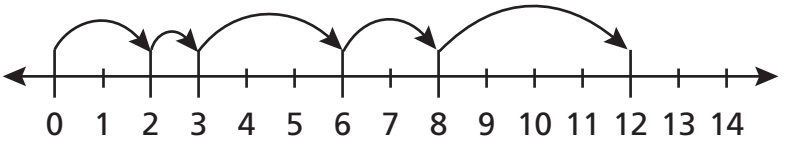
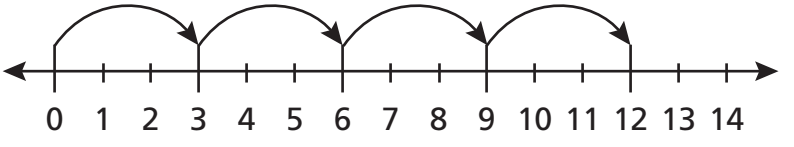
14. Which number line shows multiplication?

F. 

G. 

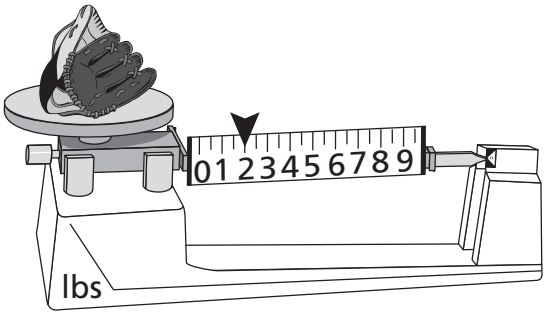
H. 

J. 

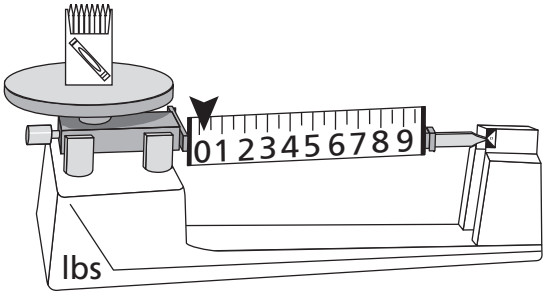
GO ON

15. Which object weighs less than 1 pound?

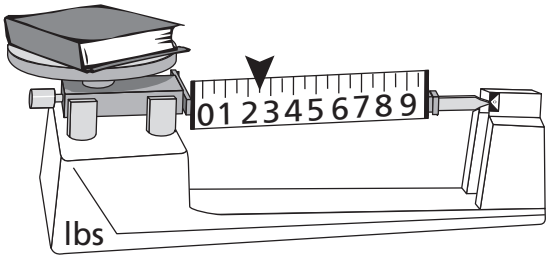
A.



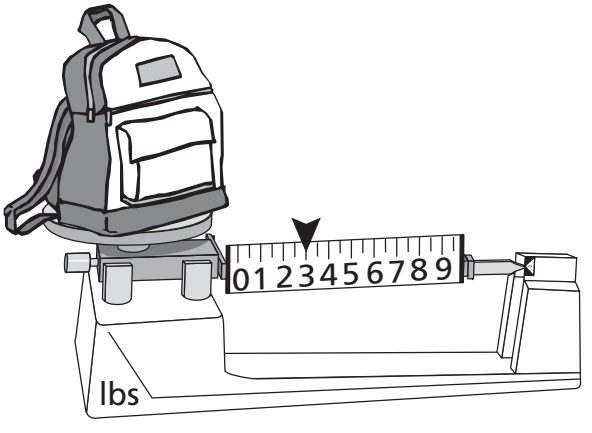
B.



C.



D.



GO ON

16. **The chart below shows the amount of money Henry earned each week for seven weeks.**

Henry's Money Earned

Week	Money Earned
1	$1.50
2	$3.00
3	$2.00
4	$2.25
5	$1.75
6	$2.50
7	$2.75

How much did Henry earn in the first three weeks?

F. $2.00

G. $4.50

H. $6.50

J. $7.00

17. **Bryan has 50 pounds of dirt to fill 5 equally-sized holes. Each hole must contain the same amount of dirt.**

Which method should Bryan use to find the number of pounds of dirt in each hole?

A. $50 \div 5$

B. 50×5

C. $50 - 5 - 5 - 5 - 5$

D. $50 - 10 - 10 - 10$

18. **Mr. Harrison has four peach trees in his backyard. The pictograph below shows the number of peaches he picked from each of the trees on Wednesday.**

Peaches Picked

Tree	Number Picked
One	
Two	
Three	
Four	

Key: Each represents 5 peaches.

What is the total number of peaches Mr. Harrison picked from tree Three?

F. 10

G. 15

H. 20

J. 25

19. **Mrs. Smith's mathematics class has 17 students. Mr. Frank's mathematics class also has 17 students.**

Which equation shows that both classes have the same number of students?

A. $5 + 12 = 5 + 2 + 6$

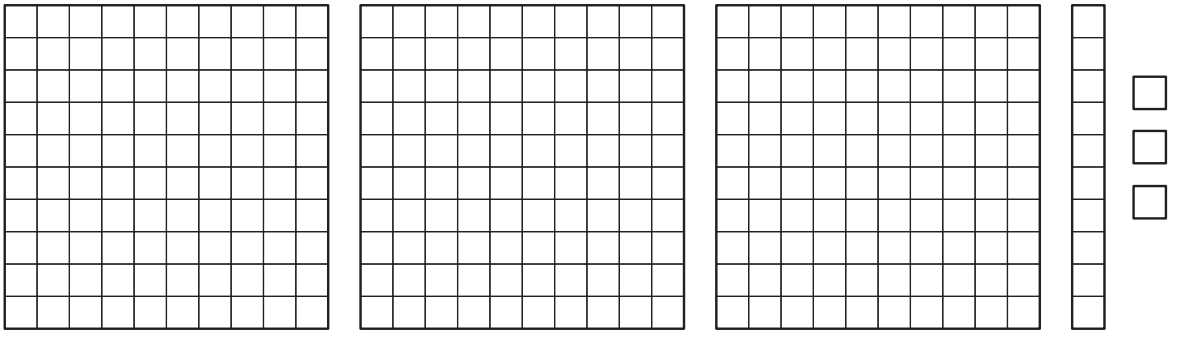
B. $5 + 12 = 5 + 6 + 6$

C. $5 + 12 = 1 + 4 + 1 + 2$

D. $5 + 12 = 2 + 3 + 2 + 6$

GO ON

20. What number do the place-value square tiles below represent?



F. 304

G. 313

H. 322

J. 30,013

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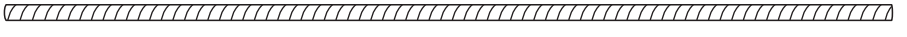
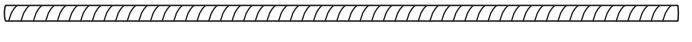
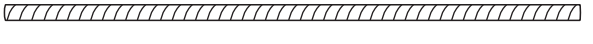
21. You may use a ruler to help answer this question.

Which straw is closest to $4\frac{1}{2}$ inches long?

A. 

B.

C. 

D. 

GO ON

22. Four basketball players scored the following numbers of points during four years of high school.

2,005 1,983 1,990 1,899

Which inequality shows the points in order from greatest to least?

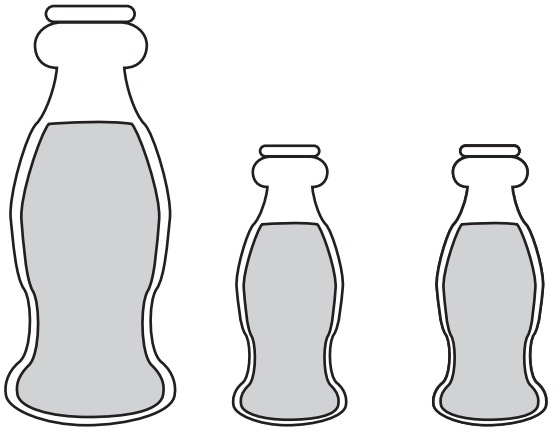
F. $1,990 > 1,983 > 1,899 > 2,005$

G. $1,990 > 1,983 > 2,005 > 1,899$

H. $2,005 > 1,990 > 1,899 > 1,983$

J. $2,005 > 1,990 > 1,983 > 1,899$

23. Juan makes a new drink by mixing ginger ale, orange juice, and cranberry juice.



Ginger Ale 36 ounces | **Orange Juice 24 ounces** | **Cranberry Juice 24 ounces**

Which number is closest to the total number of ounces in Juan's new drink?

A. 50

B. 70

C. 80

D. 90

24. Which is the inverse of the number sentence below?

$$\mathbf{11 + 25 = 36}$$

F. $25 - 11 = 14$

G. $25 + 11 = 36$

H. $36 - 25 = 11$

J. $36 - 36 = 0$

25. Which property is represented by the number sentence shown below?

$$\mathbf{6 + (4 + 5) = (6 + 4) + 5}$$

A. Commutative Property of Multiplication

B. Associative Property of Addition

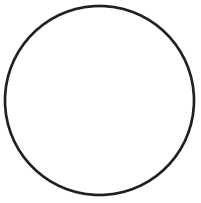
C. Commutative Property of Addition

D. Associative Property of Multiplication

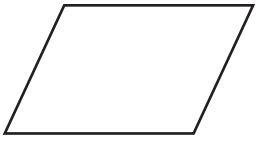
GO ON

26. Which shape is a parallelogram?

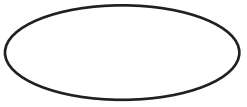
F.



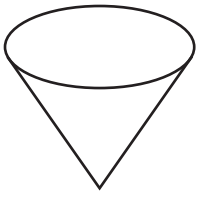
G.



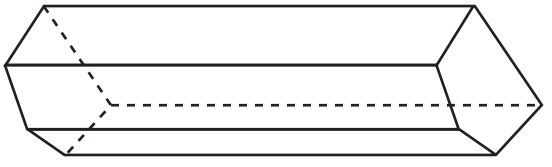
H.



J.



27. Which two-dimensional shape is needed to make the following solid figure?



A. Trapezoid

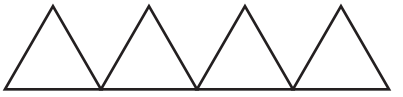
B. Pentagon

C. Triangle

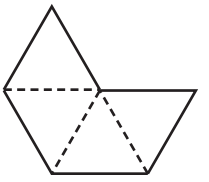
D. Circle

28. Which net can be folded to make the following solid figure?

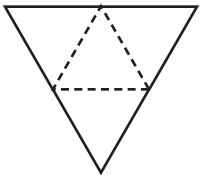
F.



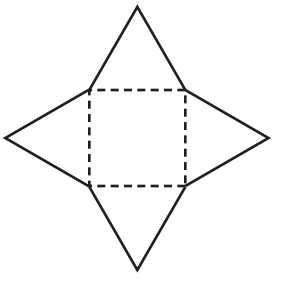
G.



H.

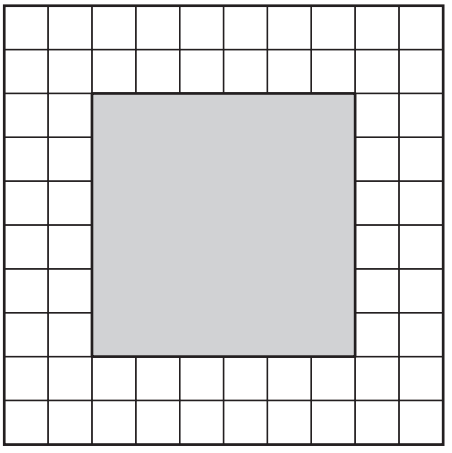


J.



GO ON

29. **Jenny drew a shaded square on a grid, as shown below.**

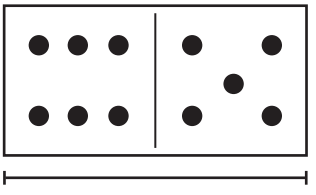


Key: Each ⊢⊣ represents 1 unit.

What is the perimeter of the shaded square?

A. 12 units
B. 24 units
C. 30 units
D. 36 units

30. **You may use a ruler to help answer this question.**



What is the length of the domino above?

F. 4 centimeters
G. 6 centimeters
H. 8 centimeters
J. 10 centimeters

31. **The table below shows the high temperatures for four days in Bret's hometown.**

High Temperatures

Day	Temperature
Monday	81°F
Tuesday	78°F
Wednesday	72°F
Thursday	81°F

What is the difference between Wednesday's temperature and Thursday's temperature?

A. 0°F
B. 3°F
C. 6°F
D. 9°F

32. **Omar has four toy cars in a bucket. The cars are the same size and shape. The colors of the cars are shown below.**

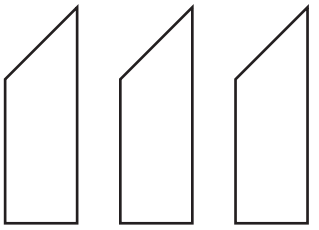
1 red 1 orange 1 green 1 yellow

If Omar picks 2 cars at one time from the bucket without looking, how many different combinations of cars are possible?

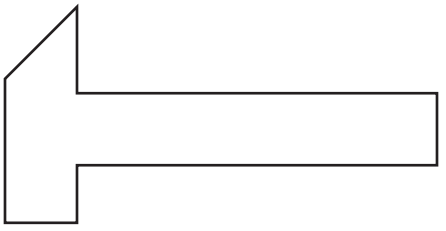
F. 4
G. 6
H. 8
J. 16

GO ON

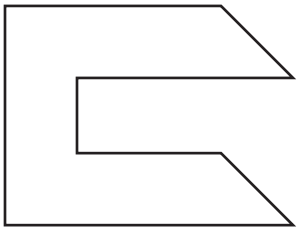
33. Which polygon can be composed using the three congruent trapezoids shown?



A.



C.



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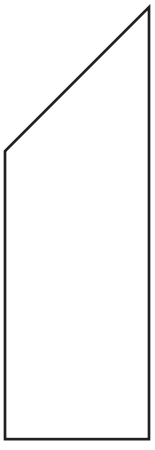
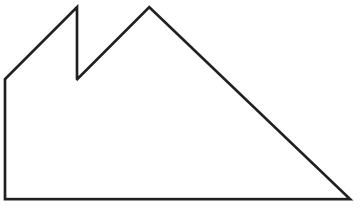


D.



GO ON

34. Mrs. Collins makes Nick a lunch each day to take to school. The chart shows the choices he has for his lunches.

Lunch Choices

Sandwich	Fruit	Juice
Turkey	Banana	Apple
Grilled Cheese	Orange	Lemonade

How many different combinations of 1 sandwich, 1 fruit, and 1 juice are possible?

F. 2

G. 4

H. 6

J. 8

35. Bill planted 4 pecan trees and 2 apple trees.

Which fraction represents the group of trees that were pecan?

A. $\frac{2}{6}$

B. $\frac{2}{4}$

C. $\frac{4}{6}$

D. $\frac{6}{6}$

36. Sara's classroom number is 603. What is 603 in word form?

F. Six zero three

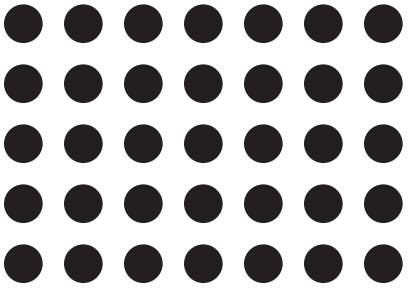
G. Six hundred three

H. Six hundred thirty

J. Six o three

GO ON

37. Irving arranged the following circles in an array.



Which multiplication fact represents Irving's array?

A. 5×5

B. 5×7

C. 35×5

D. 35×7

38. Javier wrote a division story for a number sentence.

Which strategy should Javier use to solve the number sentence $6 \div 3 = n$?

F. 3×6

G. $3 + 3$

H. $6 - 3 - 3$

J. $6 - 3 - 3 - 3$

39. Henry is saving money to buy a used guitar.

- **The used guitar costs $38.**
- **Henry has saved $12.**

Henry estimates he still needs to save $30 to buy the used guitar.

Which strategy justifies Henry's estimate?

A. Round $38 to $30, $12 to $20 and subtract.

B. Round $38 to $40, $12 to $20 and subtract.

C. Round $38 to $40, $12 to $10 and subtract.

D. Round $38 to $30, $12 to $10 and subtract.

40. What number goes in the ☐ to make the number sentence true?

$$16 + 7 = \square + 15$$

F. 5

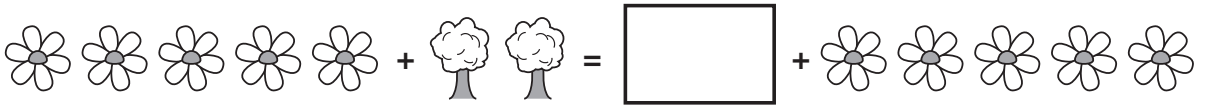
G. 6

H. 7

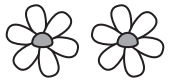
J. 8

GO ON

41. Which group of figures should be placed in the ☐ to make the model the commutative property?



A.

B. 

C.

D.

42. Which of the following describes an octagon?

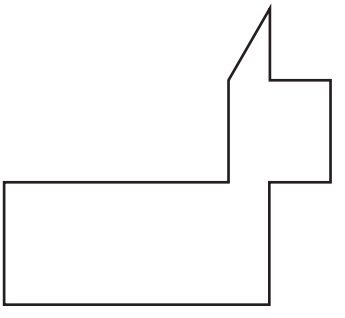
F. A shape with six angles

G. A shape with five angles

H. A shape with eight angles

J. A shape with three angles

43. Which set of polygons can be used to compose the following shape?



A. One square and two rectangles

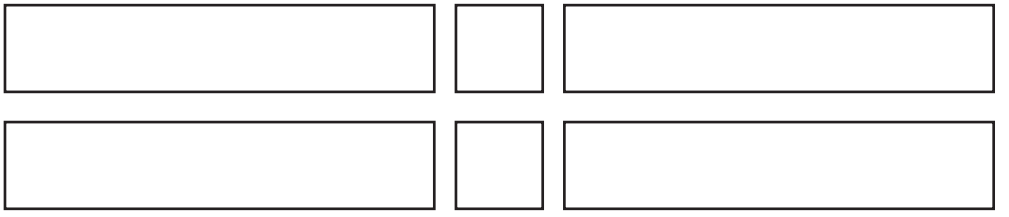
B. One rectangle, one square, and one triangle

C. One rectangle, one triangle, and one trapezoid

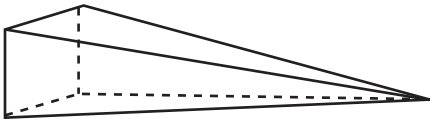
D. One trapezoid, one rectangle, and one square

GO ON

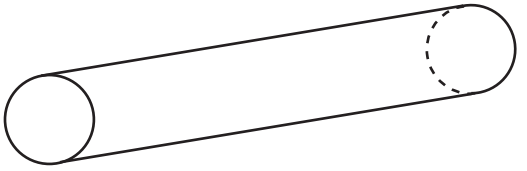
44. Which three-dimensional shape will Mario make when he tapes together the following two-dimensional shapes?



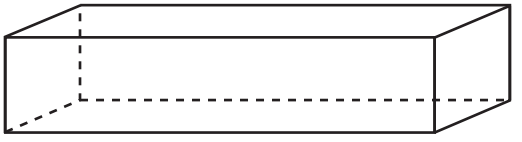
F.



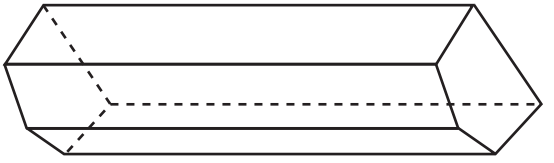
G.



H.

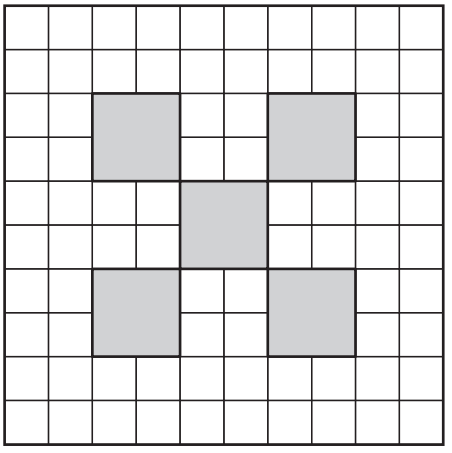


J.



GO ON

45. Susan drew shaded squares on a grid, as shown below.



Key: Each ⊢⊣ represents 1 unit.

What is the perimeter of all five shaded squares?

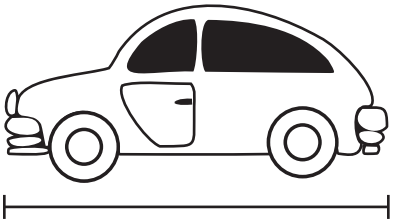
A. 32 units

B. 40 units

C. 44 units

D. 48 units

46. You may use a ruler to help answer this question.



Which measurement is the best estimate of the length of the following toy car?

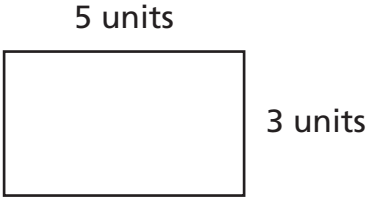
F. 1 inch

G. 2 inches

H. 3 inches

J. 4 inches

47. James thinks the perimeter of the following rectangle is 8 units.



Is James correct?

A. No, because $5 \times 3 = 15$

B. No, because $5 + 5 + 3 + 3 = 16$

C. Yes, because $5 + 3 = 8$

D. Yes, because $16 - 5 - 3 = 8$

GO ON

48. **Dwayne collected 5,294 coins. His friend Alton collected 5,199 coins.**

Which of the following correctly compares the number of coins each boy collected?

F. $5,294 < 5,199$

G. $5,294 = 5,199$

H. $5,294 + 5,199$

J. $5,294 > 5,199$

49. **The tally chart below shows the number of rosebushes of each color Ruben's mom has in her garden.**

Rosebushes

Color	Number of Bushes
Pink	𝍸 𝍸
Red	𝍸
White	𝍸 ||
Yellow	𝍸 𝍸 ||

What is the total number of pink and yellow rosebushes Ruben's mom has in her garden?

A. 14

B. 17

C. 19

D. 22

50. **Derick wants a bicycle. The kinds and colors of bicycle he will choose from are shown in the chart below.**

Bicycle Choices

Kind of Bicycle	Color
Mountain	Silver
Ten speed	Red
	Blue

How many different combinations of 1 kind of bicycle and 1 color are possible?

F. 2

G. 3

H. 5

J. 6

51. **Which fraction best describes the shaded area of the rectangle shown below?**

A. $\frac{2}{6}$

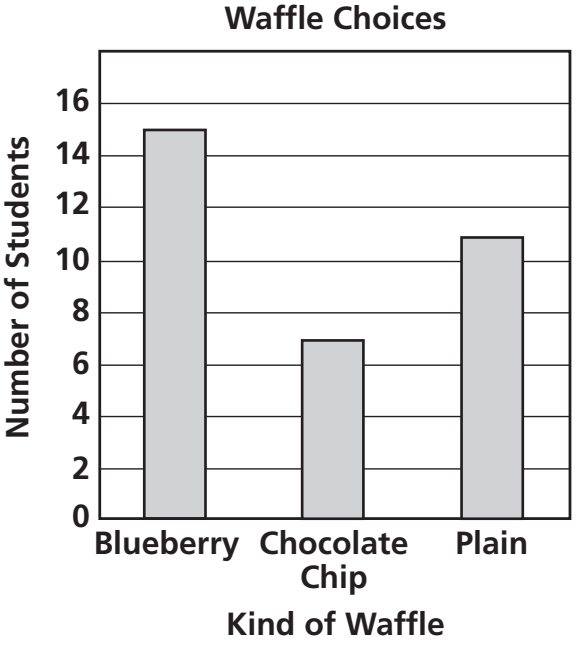
B. $\frac{2}{4}$

C. $\frac{4}{2}$

D. $\frac{6}{2}$

GO ON

52. **Melissa asked 33 students which kind of waffle they liked best. Her results are shown below.**



What is the number of students that liked chocolate chip or plain waffles combined?

F. 26

G. 21

H. 18

J. 11

53. **Francine has a birdfeeder that holds 160 ounces of food. She wants to know if the feeder can hold the following amounts of food together:**

- **108 ounces of sunflower seeds**
- **18 ounces of peanuts**
- **28 ounces of corn**

Which strategy would give Francine the closest estimate for the total ounces of sunflower seeds, peanuts, and corn?

A. 108 rounded to 100
18 rounded to 10
28 rounded to 20

B. 108 rounded to 110
18 rounded to 10
28 rounded to 20

C. 108 rounded to 100
18 rounded to 20
28 rounded to 25

D. 108 rounded to 110
18 rounded to 20
28 rounded to 30

GO ON

54. Mr. Hunt uses the same number of wheels on each wagon he makes. The table below shows the numbers of wheels he needs to make different numbers of wagons.

Mr. Hunt's Wagons

Number of Wagons	Number of Wheels
1	4
2	8
3	12
4	16

Based on the data in the table, how many wheels will Mr. Hunt need to make 5 wagons?

F. 17

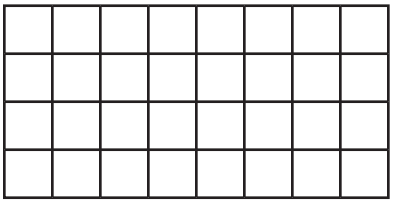
G. 18

H. 20

J. 24

GO ON

55. Mimi baked cornbread in a large rectangular pan for her family. She cut the cornbread into 32 equal pieces, as shown below. The 8 people in Mimi's family will share the cornbread equally.



Which of the following should Mimi use to find the number of pieces each person will receive?

A. 8 – 32

B. 32 – 8

C. 32 – 4 – 4 – 4

D. 32 – 8 – 8 – 8 – 8

BE SURE YOU HAVE MARKED ALL YOUR ANSWERS ON THE ANSWER DOCUMENT.

GRADE 3

MATHEMATICS PRACTICE TEST