

**VIRGINIA  
STANDARDS OF LEARNING ASSESSMENTS**

**Spring 2004 Released Test**

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**GRADE 3  
MATH  
CORE 1**

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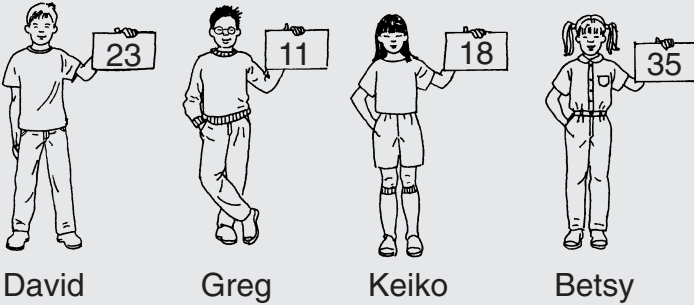
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# Mathematics

## DIRECTIONS

Read and solve each question. Then mark the space in the answer booklet for the best answer.

### SAMPLE



Who is holding a card with an even number on it?

- A David
- B Greg
- C Keiko
- D Betsy

1 Which digit of this number is in the hundreds place?

5,769

- A 5
- B 6
- C 7
- D 9

2 The table below shows the number of each kind of poster that was sold by a third-grade class.

Poster Sales

Kind of Poster	Number Sold
Cat	242
Fish	259
Frog	201
Lizard	284
Bird	215

The number of fish posters sold was LESS THAN the number of —

- F Cat posters
- G Frog posters
- H Lizard posters
- J Bird posters

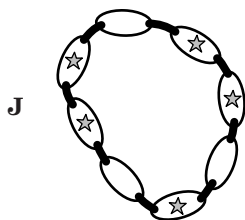
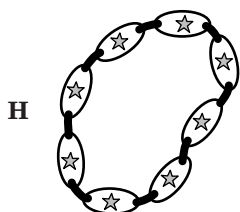
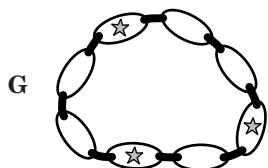
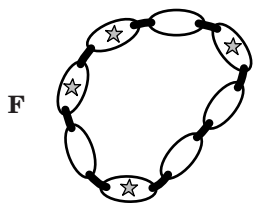
3 There are 5 pennies in each stack shown below.



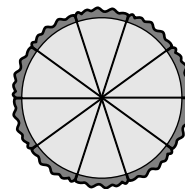
How many pennies are there in all?

- A 90
- B 85
- C 80
- D 18

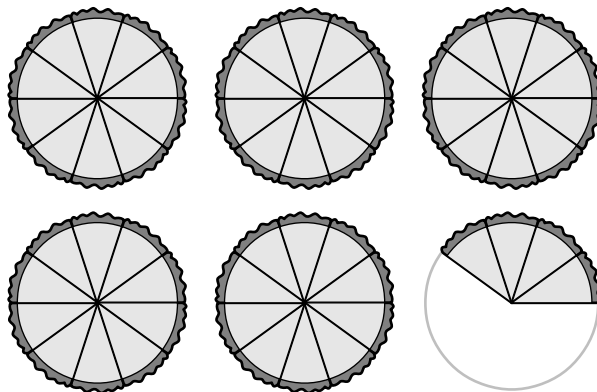
4 Which necklace has  $\frac{5}{8}$  of the beads with stars showing?



5 The figure below represents 1 pie.

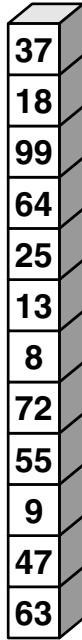


Which number is represented by the model below?



- A 0.45
- B 0.54
- C 4.5
- D 5.4

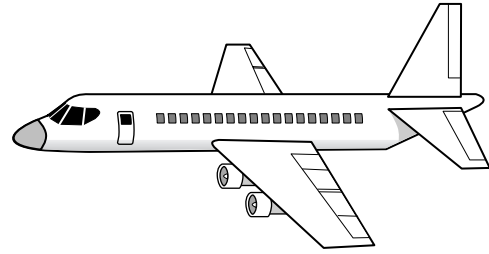
6



What number is on the block that is 11th from the bottom?

- F 64
- G 18
- H 99
- J 37

7 There are 274 people on the plane shown below.



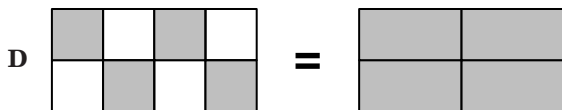
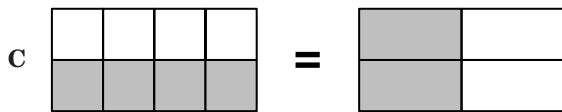
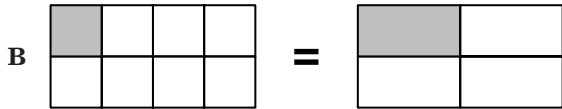
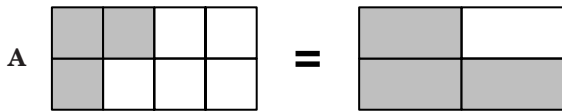
What is 274 rounded to the nearest hundred?

- A 200
- B 270
- C 280
- D 300

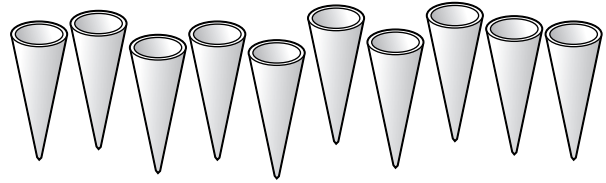
8 Which of the following is a true statement?

- F  $2,245 > 2,174$
- G  $2,174 > 2,245$
- H  $2,062 > 2,165$
- J  $2,165 > 2,174$

- 9 Each figure below is shaded to represent a fraction. Which pair of figures makes a statement that is true?



- 10 Mary will put vanilla ice cream into exactly  $\frac{1}{10}$  of the group of cones shown below.



Into how many cones will she put vanilla ice cream?

- F 1  
G 2  
H 5  
J 9
- 11 Last summer, 35,786 people visited the zoo in Harristown. How is 35,786 written in words?
- A Thirty-five thousand, seven hundred eighty-six  
B Three hundred fifty-seven thousand, sixty-eight  
C Three hundred five thousand, seven hundred eighty-six  
D Three hundred fifty thousand, seven hundred eighty-six

12 Ming used the fact,  $21 \div 7 = 3$ , to help solve a different problem. Which of the following could be the problem she was trying to solve?

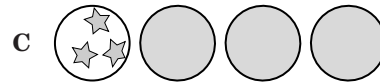
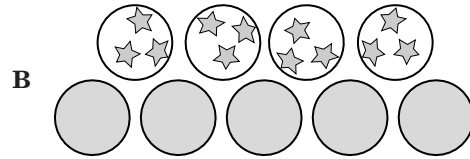
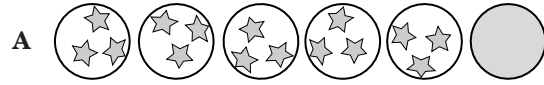
F  $\square \div 3 = 21$

G  $\square + 3 = 10$

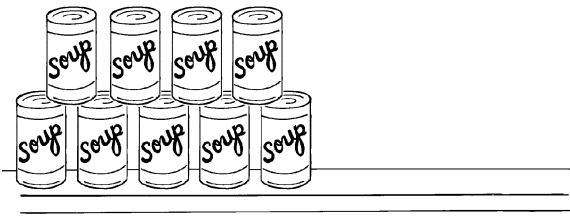
H  $21 \div \square = 7$

J  $7 - \square = 3$

13 In which group do exactly  $\frac{4}{5}$  of the beach balls have stars on them?



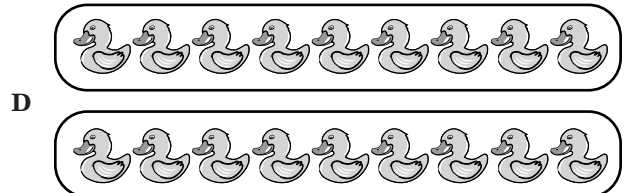
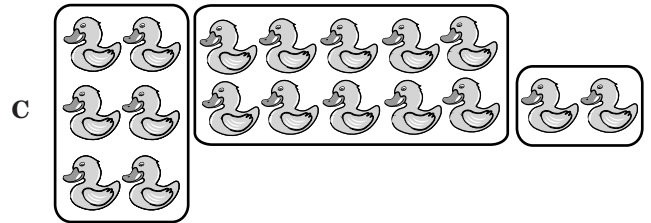
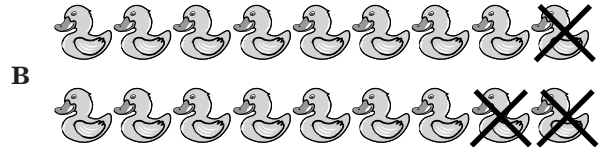
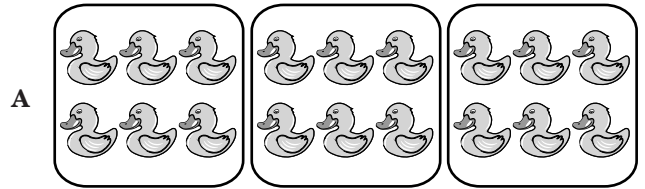
14 Lester put these cans on a shelf.



Herman put 4 more cans on the shelf. How many cans were on the shelf then?

- F 12
- G 13
- H 14
- J 15

15 Which of the following set models BEST represents  $18 \div 3$ ?



- 16 For two months, the students in Chelsea's class collected newspapers for recycling. The table below shows how much they collected each month.

**Newspapers Collected**

Month	Number of Pounds Collected
January	974
February	1,329

**How many pounds of newspaper did the students collect in all?**

- F 1,293
- G 1,655
- H 2,303
- J 2,293

17

$33 \times 5 = ?$

**Which problem can be solved using the number sentence in the box?**

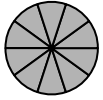
- A Calvin had 33 trading cards. He gave 5 of them to Wendy. How many trading cards does Calvin have left?
- B Sherman has 33 pages of stamps. Each page has 5 stamps on it. How many stamps is that all together?
- C The school store sold 33 bookmarks before lunch. They sold 5 bookmarks after lunch. How many bookmarks were sold in all?
- D Sally read for 33 minutes before dinner. She read for 5 minutes after dinner. How many minutes did she read in all?

18 **Which has the same product as  $3 \times 4$ ?**

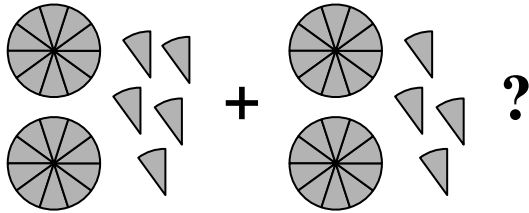
- F  $2 \times 6$
- G  $7 \times 2$
- H  $4 \times 6$
- J  $3 \times 5$



19 This is one. This is one tenth.



What is



- A 5.0
- B 4.9
- C 2.9
- D 0.1

20 The chart shows the number of stickers four friends bought.

Name	Number of Stickers
Nina	19
Carlos	18
Katie	27
Joel	23

How many stickers did Joel and Katie buy all together?

- F 23
- G 27
- H 40
- J 50

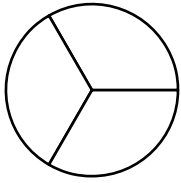
21 A total of 6,158 people started a race. Only 5,643 of the people who started the race completed it.



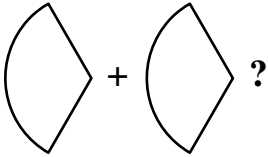
How many did not complete the race?

- A 515
- B 595
- C 1,515
- D 1,595

22 This is a whole.



How much is



F  $\frac{2}{3}$

G  $\frac{1}{3}$

H  $\frac{2}{4}$

J  $\frac{1}{4}$

23  $54 \div 9 =$

A 5

B 6

C 7

D 8

24 Bill has 2 decks of cards. Each deck has 52 cards. How many cards does Bill have in all?

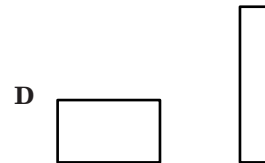
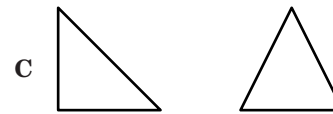
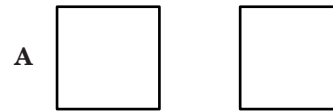
F 26

G 50

H 54

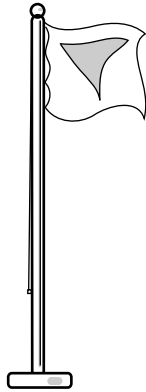
J 104

25 Look at the pairs of shapes. Which is a pair of triangles?



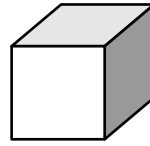
26 Use your inch ruler to help you answer this question.

Which is CLOSEST to the height of the flagpole in the picture below?

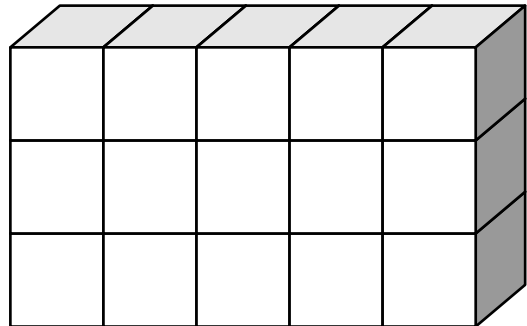


- F 1 inch
- G 2 inches
- H 3 inches
- J 4 inches

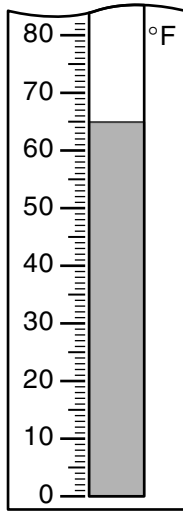
27 This is 1 block.



How many of these blocks are needed to make the stack shown below?



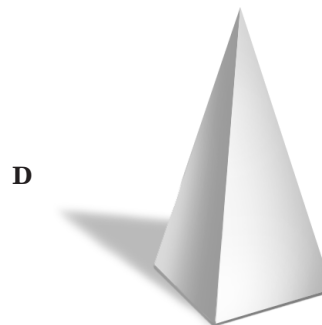
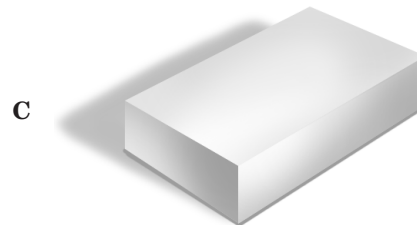
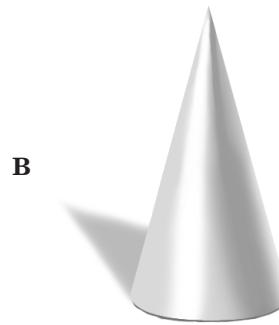
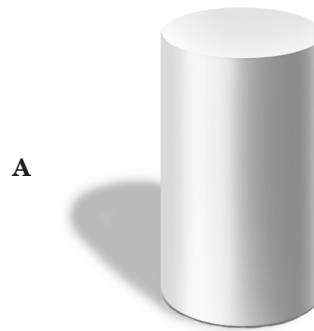
- A 13
- B 15
- C 18
- D 23



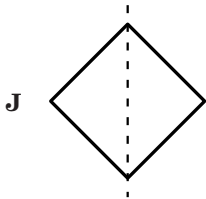
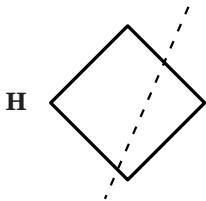
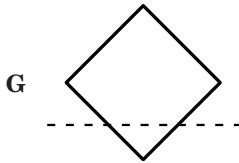
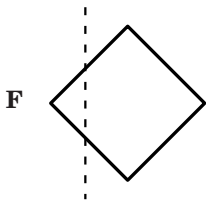
Which is closest to the temperature shown on this thermometer?

- F 69°F
- G 65°F
- H 60°F
- J 58°F

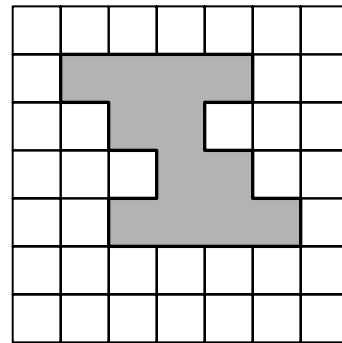
29 Which is a picture of a rectangular solid?



30 Which figure shows a line of symmetry?



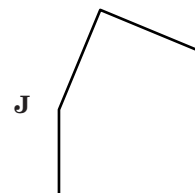
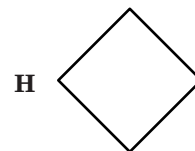
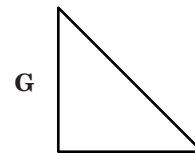
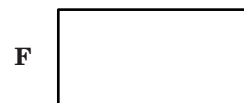
31 Each small square on the grid is 1 square unit.



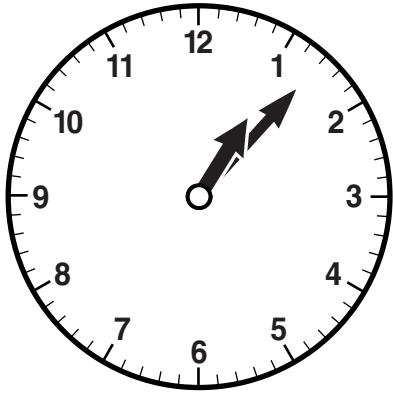
How many square units are needed to make the shaded figure?

- A 8
- B 12
- C 15
- D 20

32 Which of the following has just one square corner?



- 33 Meegan finished lunch at the time shown on the clock below.



Which is closest to the time shown on the clock?

- A 12:01
- B 12:07
- C 1:01
- D 1:07

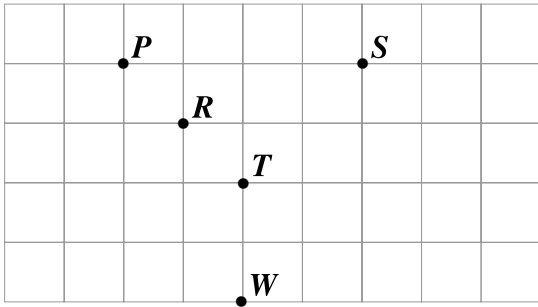
- 34 Wade is in third grade.



Which is **CLOSEST** to the amount Wade weighs?

- F 5 ounces
- G 50 ounces
- H 5 pounds
- J 50 pounds

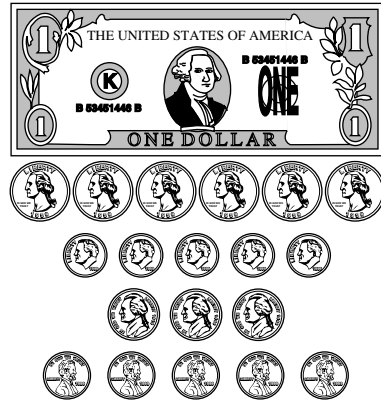
- 35 You can draw on the grid to help find the answer.



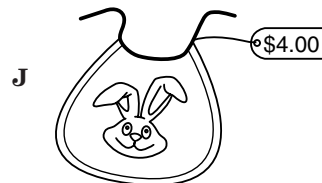
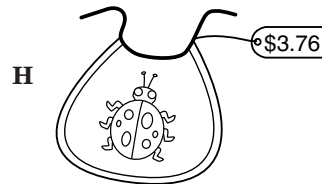
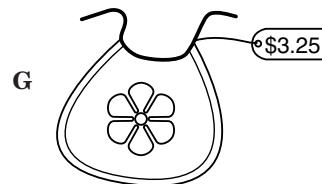
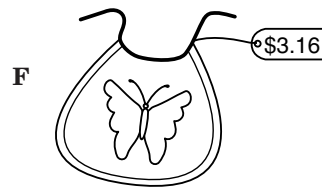
Three of the points on the grid above can be connected to make 1 line segment. Which 3 points are they?

- A Points *P*, *R*, and *W*
- B Points *P*, *R*, and *T*
- C Points *S*, *T*, and *W*
- D Points *S*, *R*, and *T*

- 36 Stephanie has the money shown below to buy a bib for her baby brother.



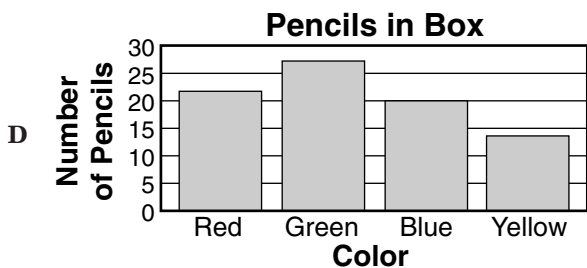
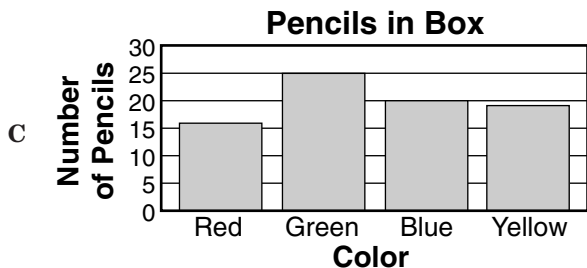
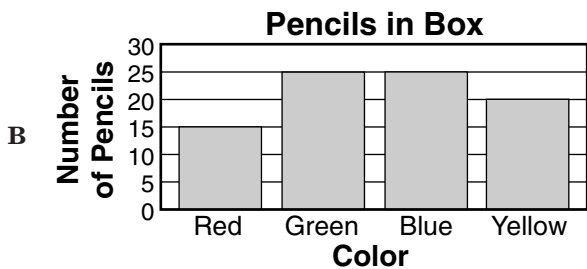
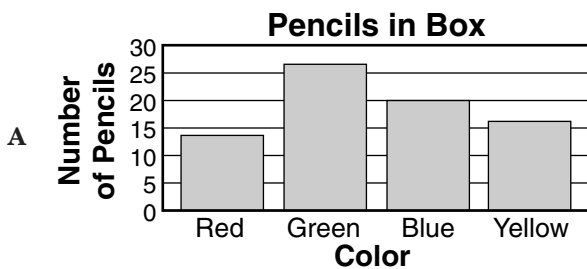
If the prices shown include tax, which of the following bibs can Stephanie buy with this money?



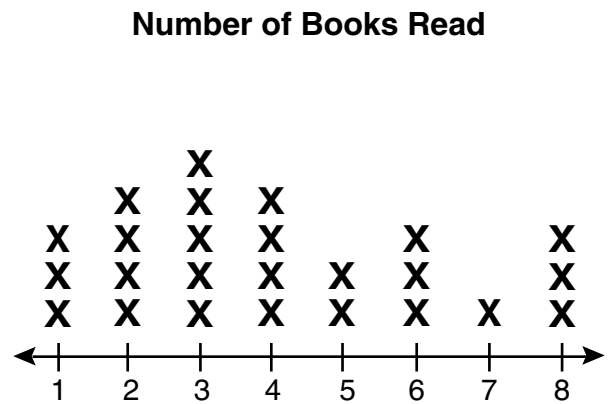
- 37 The table below shows the number of each color pencil in a box.

Color	Number in Box
Red	13
Green	26
Blue	20
Yellow	16

Which graph below shows the correct number of pencils in the box?



- 38 The line plot below shows the number of books each student in Marcia's class read over the summer.



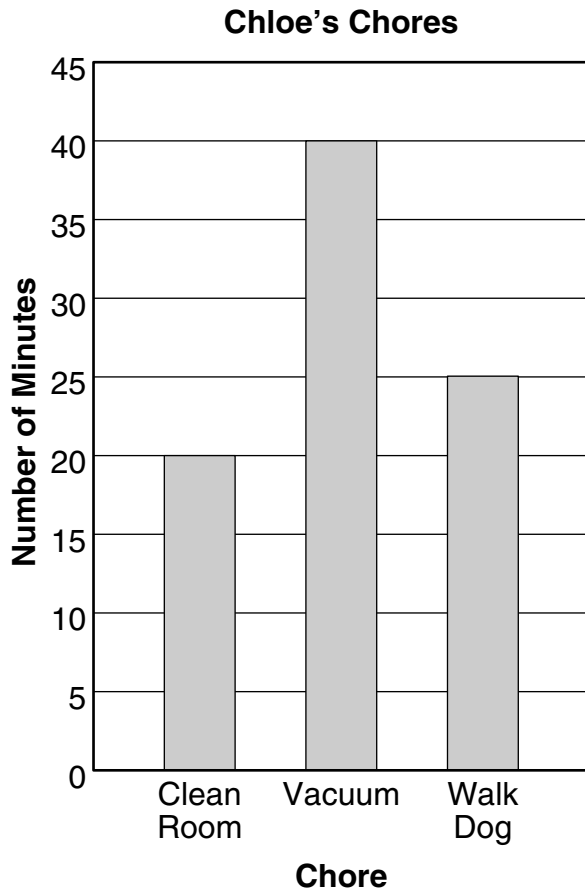
Each X represents 1 student.

How many more students read exactly 3 books than exactly 7 books?

- F 4
- G 5
- H 6
- J 7



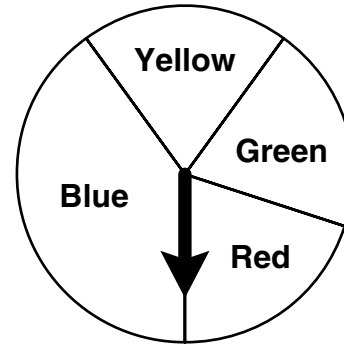
- 39 The bar graph below shows the number of minutes it takes Chloe to do each chore.



How many minutes does it take Chloe to clean her room and walk the dog all together?






- A 25
- B 35
- C 45
- D 60

- 40 If Bert spins this spinner one time, which color is the spinner MOST LIKELY to land on?



- F Red
- G Green
- H Blue
- J Yellow

41 Mark made this picture graph to show the number of birds he counted on a field trip.

Starling	
Blue Jay	
Sparrow	
Crow	
Robin	

Each  = 4 birds

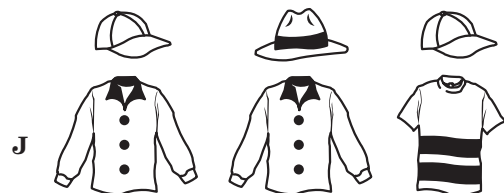
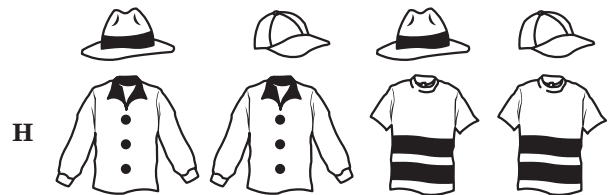
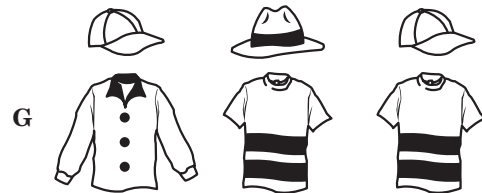
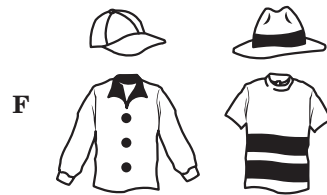
What was the total number of robins that he saw?

- A 16
- B 12
- C 8
- D 4

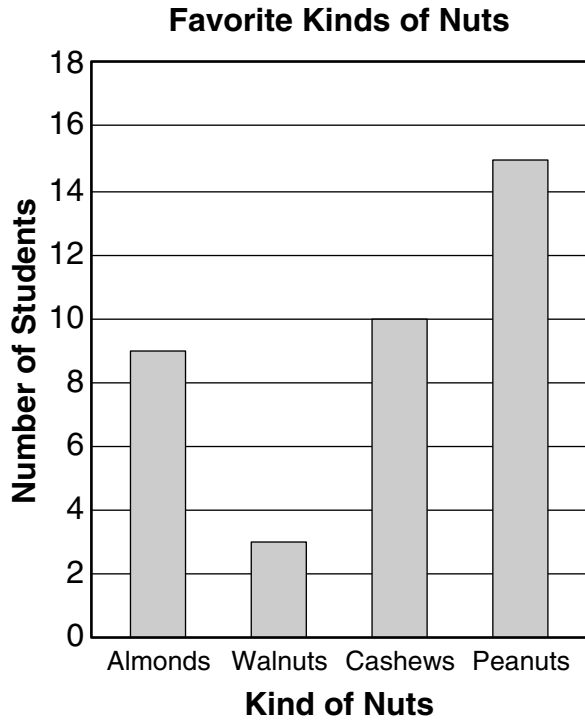
42 Reed has to choose from these hats and shirts for a costume.



Which of the following lists all the different ways to combine 1 hat with 1 shirt?



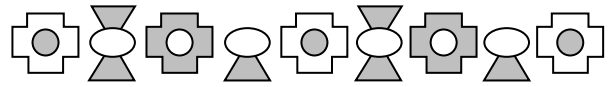
- 43 The bar graph below shows the favorite kinds of nuts of the students in a class.



**Peanuts were the favorite nut of how many students?**

- A 7
- B 8
- C 14
- D 15

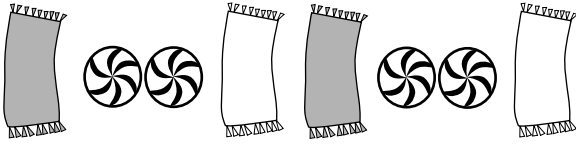
- 44 Look at the pattern of shapes below.



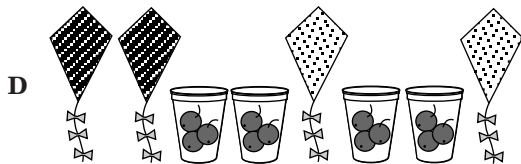
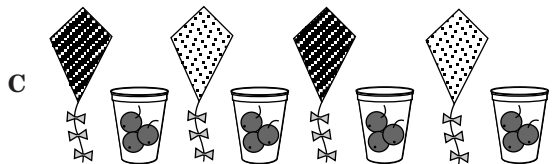
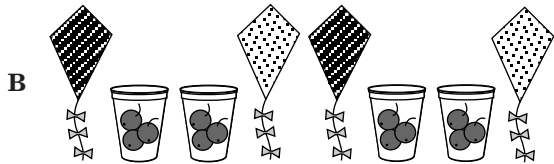
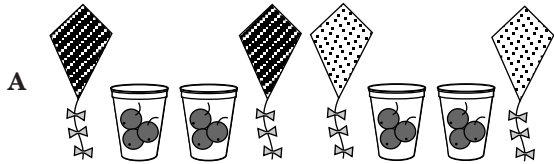
**If the pattern continues in the same way, what will be the next shape?**

- F
- G
- H
- J

45 Look at this pattern.



Which of the following shows the same kind of pattern?



46 Look at the pattern of numbers shown below.

85 82 79 76    ?

If the pattern continues in the same way, what will be the next number?

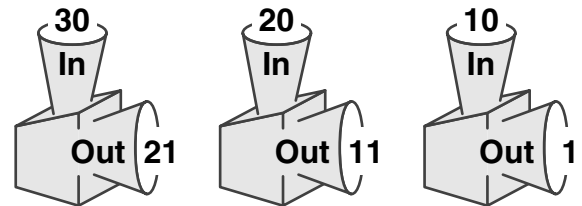
F 75

G 73

H 69

J 65

47 Numbers that go into the machine below are changed to a different number using a rule.



Which of the following could be the rule the machine uses?

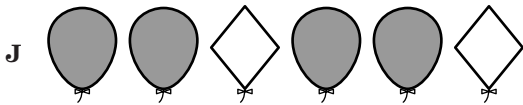
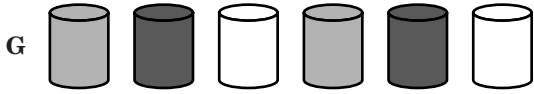
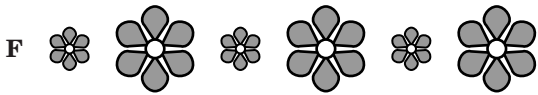
A Subtract 19

B Subtract 11

C Subtract 10

D Subtract 9

48 Which of the patterns below is based on changes in SIZE?



49 What counting number comes right after 539?

- A 530
- B 538
- C 540
- D 541

50 Ginger bought 3 children's tickets and some adult tickets for a fair. She bought a total of 11 tickets. How many adult tickets did Ginger buy?

- F 7
- G 8
- H 12
- J 14



## Answer Key

Test Sequence	Correct Answer	Reporting Category	Reporting Category Description
1	C	006	Number and Number Sense
2	H	006	Number and Number Sense
3	A	006	Number and Number Sense
4	J	006	Number and Number Sense
5	D	006	Number and Number Sense
6	G	006	Number and Number Sense
7	D	006	Number and Number Sense
8	F	006	Number and Number Sense
9	C	006	Number and Number Sense
10	F	006	Number and Number Sense
11	A	006	Number and Number Sense
12	H	006	Number and Number Sense
13	D	006	Number and Number Sense
14	G	007	Computation and Estimation
15	A	007	Computation and Estimation
16	H	007	Computation and Estimation
17	B	007	Computation and Estimation
18	F	007	Computation and Estimation
19	B	007	Computation and Estimation
20	J	007	Computation and Estimation
21	A	007	Computation and Estimation
22	F	007	Computation and Estimation
23	B	007	Computation and Estimation
24	J	007	Computation and Estimation
25	C	008	Measurement and Geometry
26	G	008	Measurement and Geometry
27	B	008	Measurement and Geometry
28	G	008	Measurement and Geometry
29	C	008	Measurement and Geometry
30	J	008	Measurement and Geometry
31	B	008	Measurement and Geometry
32	G	008	Measurement and Geometry
33	D	008	Measurement and Geometry
34	J	008	Measurement and Geometry
35	B	008	Measurement and Geometry
36	F	008	Measurement and Geometry
37	A	009	Probability and Statistics
38	F	009	Probability and Statistics
39	C	009	Probability and Statistics
40	H	009	Probability and Statistics
41	A	009	Probability and Statistics
42	H	009	Probability and Statistics
43	D	009	Probability and Statistics
44	G	010	Patterns, Functions, and Algebra
45	B	010	Patterns, Functions, and Algebra
46	G	010	Patterns, Functions, and Algebra
47	D	010	Patterns, Functions, and Algebra
48	F	010	Patterns, Functions, and Algebra
49	C	010	Patterns, Functions, and Algebra
50	G	010	Patterns, Functions, and Algebra