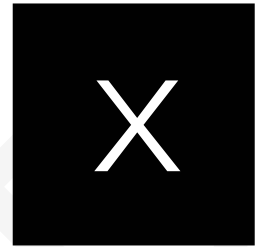


Name

RELEASED FORM

Grade 3 Pretest

Form X



North Carolina

End-of-Grade Tests—

Grade 3 Pretest

Mathematics—Calculator Active

Mathematics—Calculator Inactive (page 18)

Public Schools of North Carolina

www.ncpublicschools.org

State Board of Education

Department of Public Instruction

Division of Accountability Services/North Carolina Testing Program

Raleigh, North Carolina 27699-6314

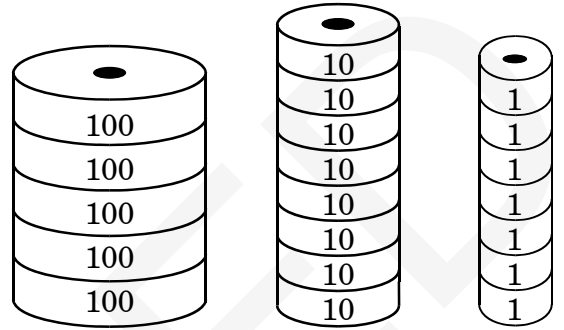




1. What is another way to write the number 675?

- A $6 + 7 + 5$
- B $600 + 70 + 5$
- C $67 + 5 + 0$
- D $60 + 70 + 5$

2. What is the total value of the disks below?



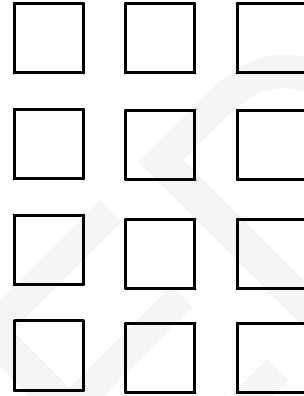
- A 487
- B 577
- C 587
- D 785



3. A teacher has 28 math books on a shelf and 30 math books in a box. The teacher needs 62 math books. Does the teacher have enough math books?

- A Yes, there are exactly 62 books.
- B Yes, there are more than 62 books.
- C No, the teacher needs 4 more books.
- D No, the teacher needs 6 more books.

4. Gina had 12 stickers.



She gave 3 stickers to each of her 4 friends. What fraction of the 12 stickers did she give to each friend?

- A $\frac{1}{4}$
- B $\frac{1}{3}$
- C $\frac{1}{2}$
- D $\frac{2}{3}$



5. Mary and her friends put their marbles into groups of ten. Mary had 6 groups, Sandy had 5 groups, and Jake had 9 groups. There were 4 marbles left over. How many marbles did the three friends have altogether?

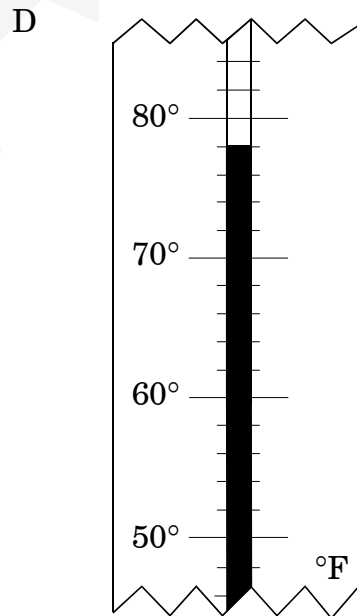
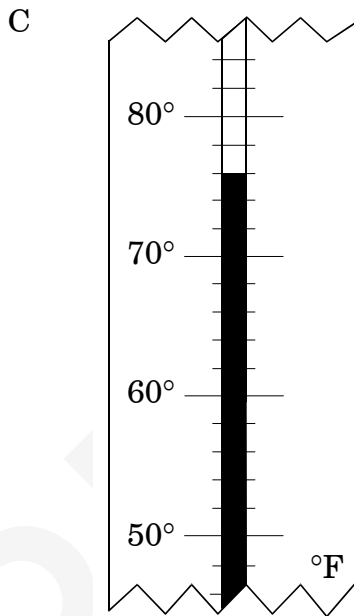
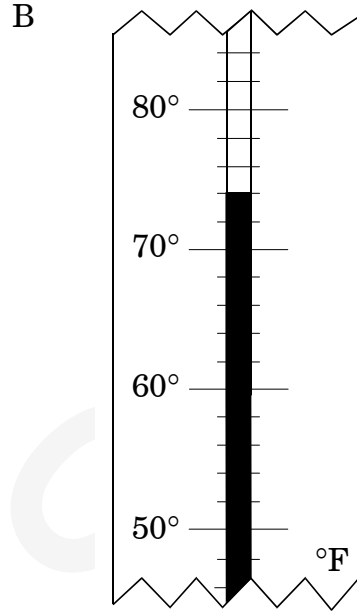
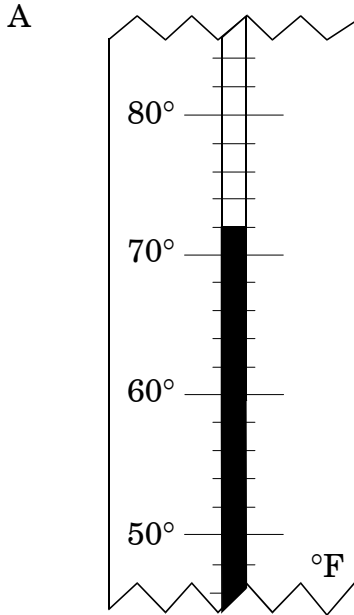
- A 20
- B 24
- C 204
- D 214

6. Paul's Pizza Parlor sold 63 pizzas for lunch. It sold 10 fewer pizzas for dinner. How many pizzas were sold altogether?

- A 53
- B 73
- C 116
- D 126

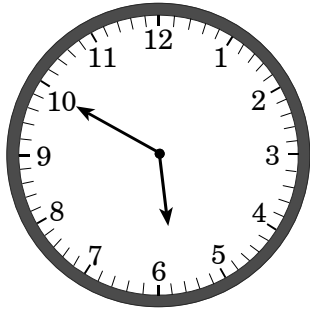


7. Which thermometer shows a temperature of 74°F ?



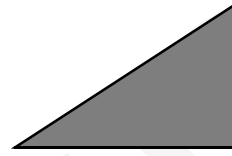


8. What time does this clock show?

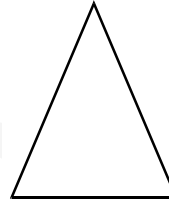


- A 5:50
- B 6:10
- C 6:50
- D 10:30

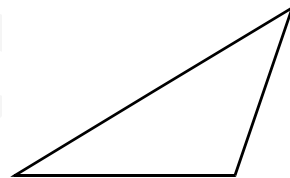
9. Which triangle is congruent to the shaded triangle?



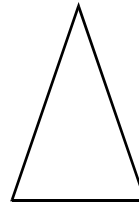
A



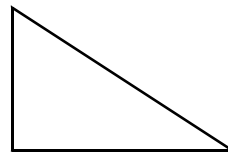
B



C



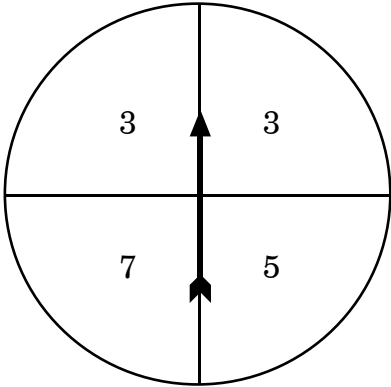
D



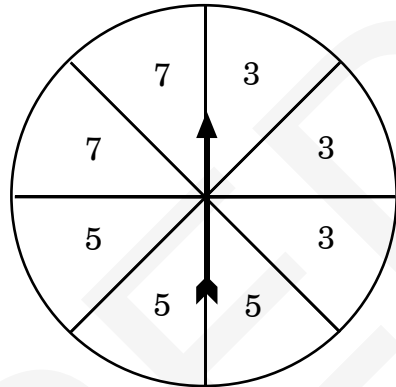


10. Which of these spinners is **most likely** to stop on 3?

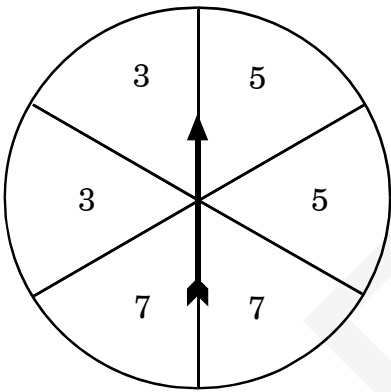
A



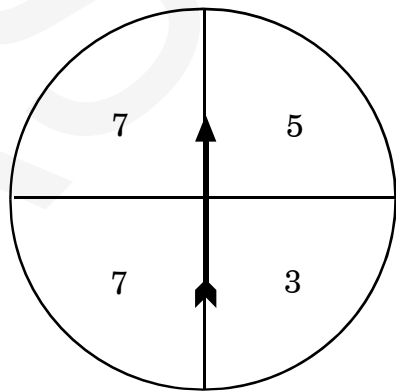
B



C










D





11. A class made a pictograph that shows the weather they saw each day.

Weather	Number of Days
Sunny 	
Rainy 	
Cloudy 	

 = 2 days

How many more days were Sunny than Cloudy?

- A 16
- B 8
- C 6
- D 3

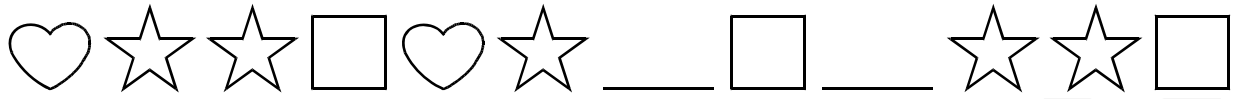
12. Which numbers complete this pattern?

240, 245, ____, 255, 260, ____

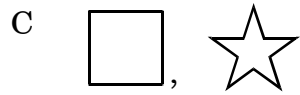
- A 250, 261
- B 250, 265
- C 246, 265
- D 246, 270



13. David wants to make a repeating pattern by filling in the blank spaces below.

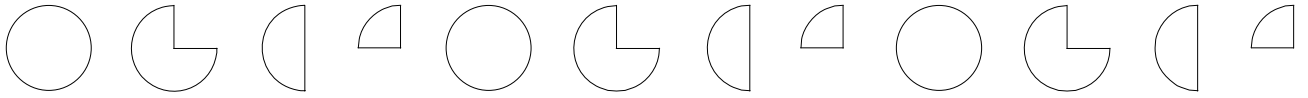


Which two shapes will correctly fill in the blanks from left to right?









14. Twelve figures are shown in the pattern below.

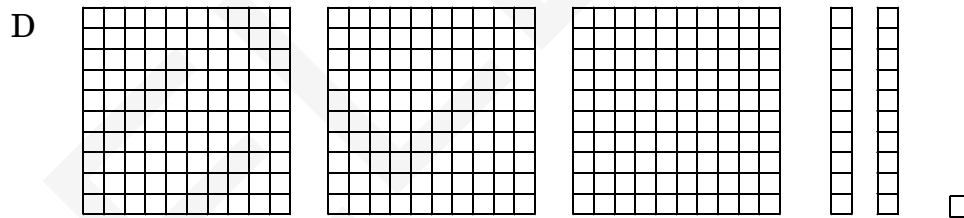
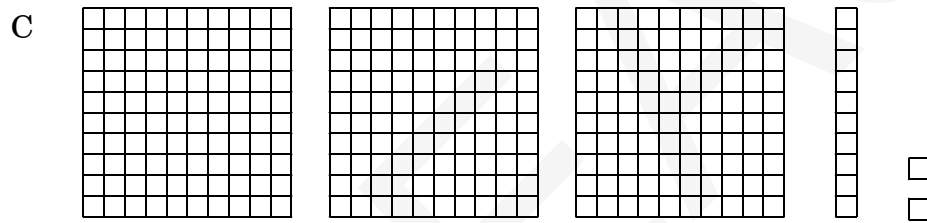
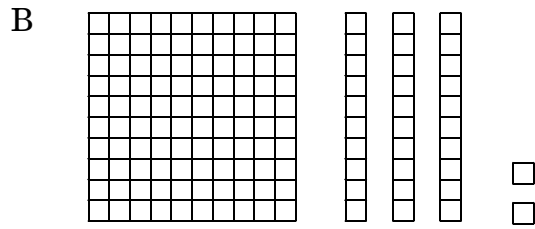
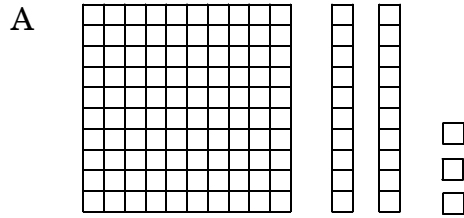


What will be the 14th figure if the pattern continues?

- A 
- B 
- C 
- D 



15. Which group of base-ten blocks shows one hundred thirty-two?





16. How is four hundreds, six tens, and three ones written as a number?

- A 364
- B 400
- C 463
- D 643

17. This chart shows how students arrive at Oak Street School.

**Oak Street School
Student Transportation**

	Bus	Walk	Car	Bicycle
Grade 3	4	10	3	4
Grade 4	9	6	5	0
Grade 5	7	7	5	2

How many students at Oak Street School ride the bus?

- A 21
- B 20
- C 13
- D 4



18. There were 25 cars in the parking lot, and then 12 cars drove away. Later, 20 more cars parked in the lot. Which number sentence shows a way to find the number of cars in the parking lot?

A $25 - 12 + 20 = 33$

B $25 + 12 + 20 = 57$

C $25 - 12 = 13$

D $25 + 20 = 45$

19. Mrs. Blake's class raised \$105 for a new printer. Mrs. Todd's class raised \$70. How much more money did Mrs. Blake's class raise than Mrs. Todd's class?

A \$25

B \$26

C \$35

D \$36

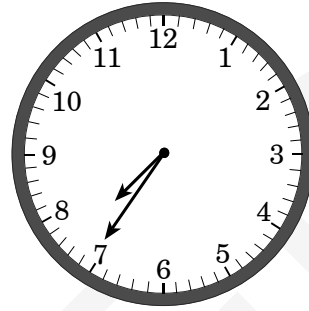


20. Molly scored 50 points in a game. Her sister scored double that number of points. How many points did Molly and her sister score altogether?

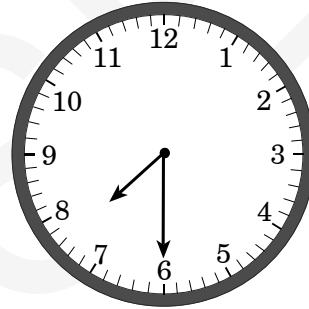
- A 50
- B 100
- C 150
- D 500

21. Which clock shows 8:25?

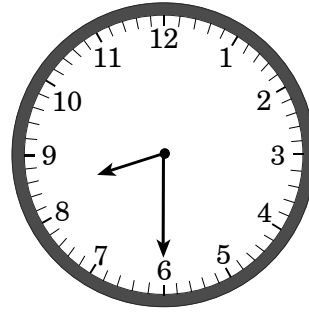
A



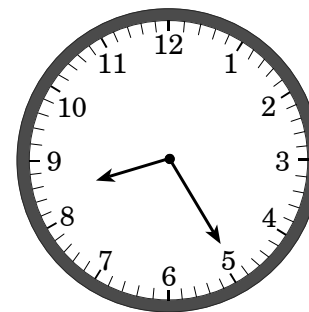
B



C

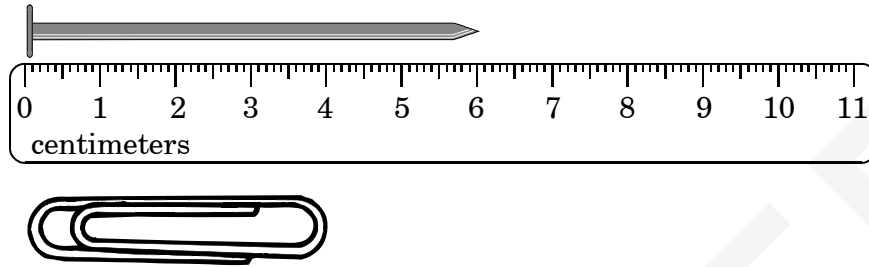


D





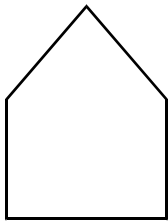
22. How much longer is the nail than the paper clip?



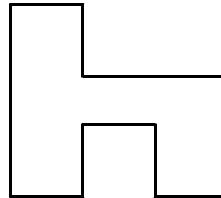
- A 6 centimeters
- B 4 centimeters
- C 3 centimeters
- D 2 centimeters

23. Which figure has no line of symmetry?

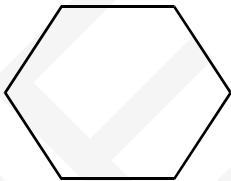
A



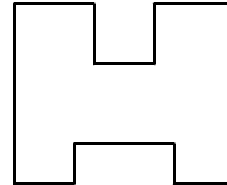
B



C



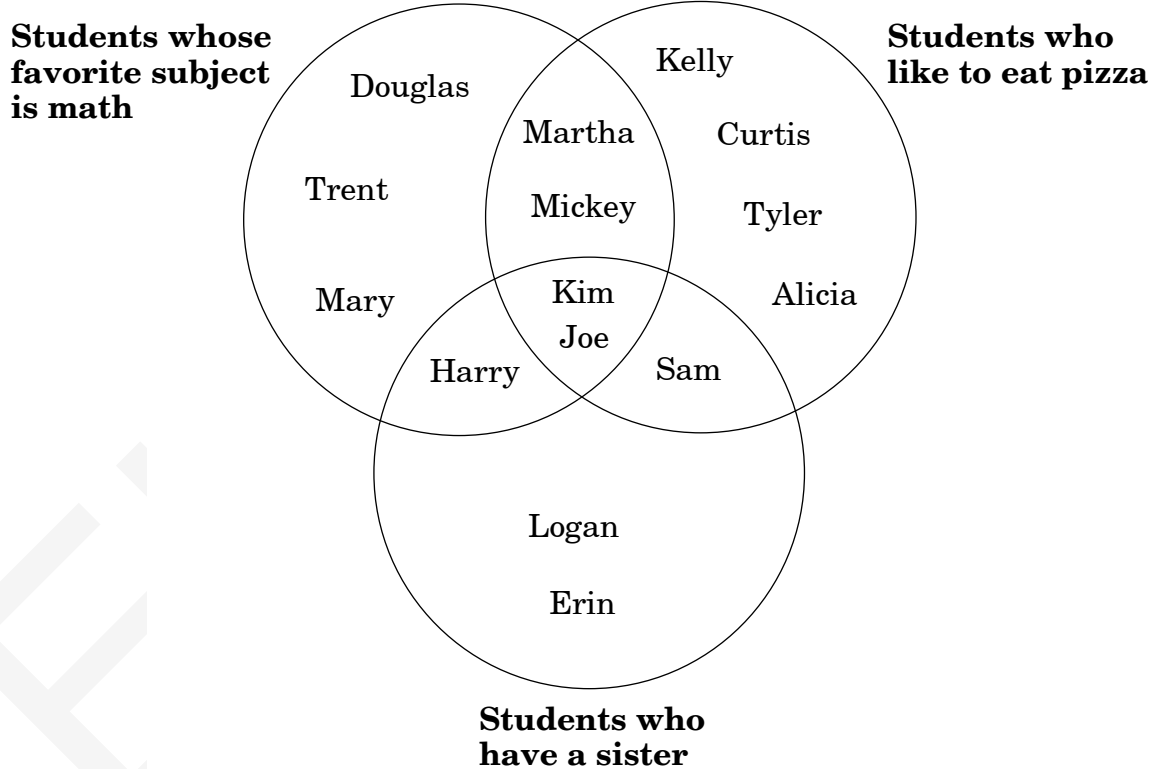
D






24. Martha has 5 blue, 1 red, 2 yellow, and 3 green buttons in a bag. If Martha removes a button without looking, which button color would she **most likely** pull out of the bag?
- A blue
 - B red
 - C yellow
 - D green





25. Based on this Venn diagram, which statement is true?



- A Sam has a sister and likes to eat pizza.
- B Alicia's favorite subject is math.
- C Mary has a sister.
- D Harry's favorite subject is math and he likes to eat pizza.



26. On Mary's pictograph, one  represents 10 books. How would 45 books be shown on her pictograph?

- A 
- B 
- C 
- D 

27. Which answer choice describes this pattern?

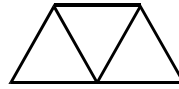


- A PQQQ
- B PQPR
- C PQRR
- D PQRS

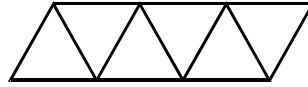


28. How many triangles will be in the set of triangles on **Row 5** in this growing pattern?

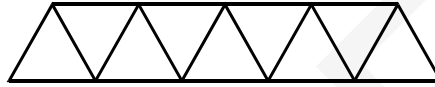
Row 1



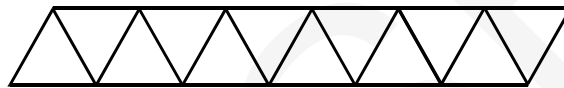
Row 2



Row 3



Row 4



Row 5

 ?

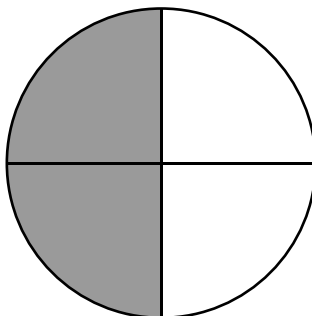
- A 15
- B 13
- C 8
- D 7



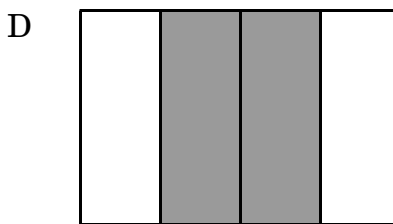
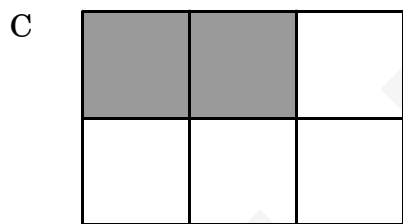
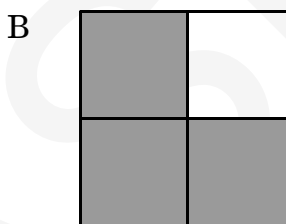
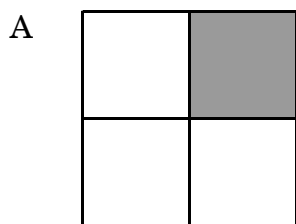
**End of Mathematics—
Calculator Active**



1. Two-fourths of the circle is shaded.

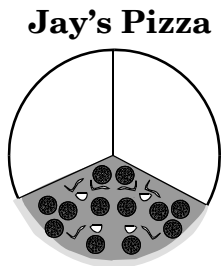


Which figure also has two-fourths shaded?





2. Jay had a pizza with 3 pieces. He ate 2 pieces.



What fraction of the pizza did Jay eat?

- A $\frac{1}{3}$
 - B $\frac{2}{3}$
 - C $\frac{3}{4}$
 - D $\frac{4}{3}$
3. Which group of numbers is in order from **least** to **greatest**?
- A 899, 900, 901
 - B 555, 557, 556
 - C 370, 371, 369
 - D 147, 145, 146

4. Clarence needs 2 cards with even numbers to win his game. He must choose from the cards below.



Which 2 cards does Clarence need to choose to win?

- A

57	59
----	----
- B

58	59
----	----
- C

58	62
----	----
- D

59	61
----	----

5. Alicia had a box of books. She sold 31 of the books and had 19 books left. How many books did Alicia have at the beginning?
- A 12
 - B 28
 - C 40
 - D 50

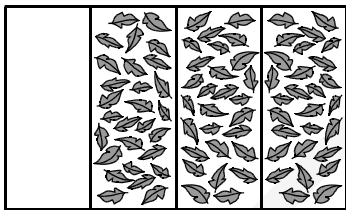


6. Todd has 20 toy cars. He will put all the cars in groups of 4. How many groups of cars will Todd make?

- A 4
- B 5
- C 16
- D 24

7. Tim's yard was covered with leaves. He raked $\frac{1}{4}$ of the yard.

Tim's Yard



How much of the yard is still covered with leaves?

- A $\frac{3}{1}$
- B $\frac{3}{4}$
- C $\frac{1}{2}$
- D $\frac{1}{4}$

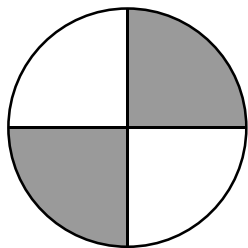
8. Mr. Riley is reading a book with 472 pages. After the first day, he had read 65 pages. **About** how many more pages does he need to read to finish the book?

- A fewer than 200 pages
- B between 250 and 350 pages
- C between 350 and 450 pages
- D more than 500 pages

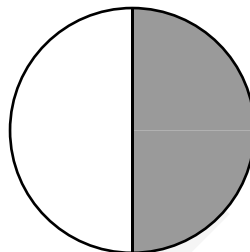


9. Which circle below shows the *greatest* fraction shaded?

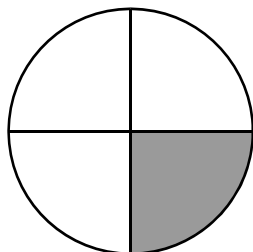
A



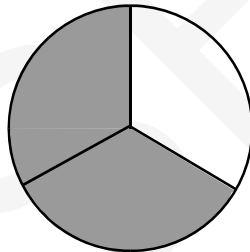
B



C

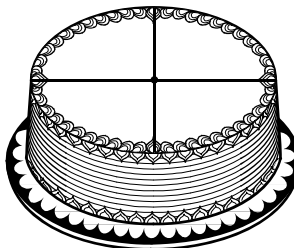


D





10. Angie cut a small cake into 4 equal pieces. Her brother ate $\frac{1}{4}$ of the cake. Angie ate $\frac{1}{2}$ of the same cake.



How much did they eat altogether?

- A $\frac{3}{4}$
- B $\frac{2}{4}$
- C $\frac{2}{6}$
- D $\frac{1}{4}$



**End of Mathematics—
Calculator Inactive**

**North Carolina Test of Mathematics
Grade 3 Pretest Form X RELEASED Fall 2009
Answer Key**

CALCULATOR ACTIVE



Item Number	Correct Answer	Goal
1	B	1 — Number and Operations
2	C	1 — Number and Operations
3	C	1 — Number and Operations
4	A	1 — Number and Operations
5	C	1 — Number and Operations
6	C	1 — Number and Operations
7	B	2 — Measurement
8	A	2 — Measurement
9	D	3 — Geometry
10	A	4 — Data Analysis and Probability
11	C	4 — Data Analysis and Probability
12	B	5 — Algebra
13	D	5 — Algebra
14	B	5 — Algebra
15	B	1 — Number and Operations
16	C	1 — Number and Operations
17	B	1 — Number and Operations
18	A	1 — Number and Operations
19	C	1 — Number and Operations
20	C	1 — Number and Operations
21	D	2 — Measurement
22	D	2 — Measurement
23	B	3 — Geometry
24	A	4 — Data Analysis and Probability
25	A	4 — Data Analysis and Probability
26	D	4 — Data Analysis and Probability
27	B	5 — Algebra
28	A	5 — Algebra

**North Carolina Test of Mathematics
Grade 3 Pretest Form X RELEASED Fall 2009
Answer Key**

CALCULATOR INACTIVE



Item Number	Correct Answer	Goal
1	D	1 — Number and Operations
2	B	1 — Number and Operations
3	A	1 — Number and Operations
4	C	1 — Number and Operations
5	D	1 — Number and Operations
6	B	1 — Number and Operations
7	B	1 — Number and Operations
8	C	1 — Number and Operations
9	D	1 — Number and Operations
10	A	1 — Number and Operations

**North Carolina Test of Mathematics
Grade 3 Pretest Form X RELEASED Fall 2009
Raw to Scale Score Conversion**

Raw Score	Scale Score
0	297
1	298
2	299
3	300
4	301
5	303
6	304
7	305
8	307
9	308
10	310
11	312
12	314
13	315
14	317
15	318
16	320
17	321
18	323
19	324
20	325
21	327
22	328
23	330
24	331
25	332
26	334
27	335
28	336
29	338
30	339
31	341
32	343
33	345
34	347
35	349
36	352
37	355
38	359