

Minnesota MCA Grade 3 Math Practice

Exam Materials
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Name _____

Minnesota Comprehensive Assessments-Series III

Mathematics Item Sampler
Grade 3



ITEM SAMPLERS ARE NOT SECURE TEST MATERIALS. THIS ITEM
SAMPLER TEST BOOK MAY BE COPIED OR DUPLICATED.

Mathematics Test

General Directions

- This test contains four segments.
- You may use the grid paper at the back of this test book as scratch paper.
- For each question, choose the answer you think is best.
- Look at the sample that shows how to answer the question.

Sample Question Answered in Test Book:

$$20 - 8 =$$

- A. 8
- B. 10
- ☒ C. 12
- D. 16

- You **may not** use a calculator for Segment 1.
- You **may** use a calculator for Segments 2, 3, and 4.
- When you finish a segment of the test, stop and check your answers. You may not work on a different segment of the test. You will be told when to begin the next segment.



Mathematics Test — Segment 1



1. What is another way to show 4,608?

- A. $46 + 8$
- B. $4,000 + 60 + 8$
- C. $4,000 + 600 + 8$
- D. $4,000 + 600 + 80$

2. There are 23,650 people in a stadium.

The stadium can hold 1,000 more people.

How many people can the stadium hold?

- A. 22,650
- B. 23,750
- C. 24,650
- D. 33,650



3. What is 153,924 rounded to the nearest thousand?

- A. 150,000
- B. 153,000
- C. 153,900
- D. 154,000

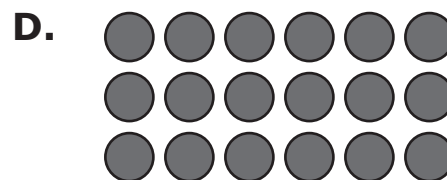
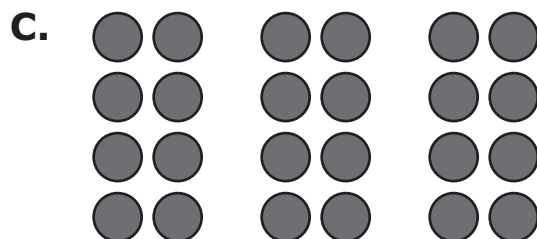
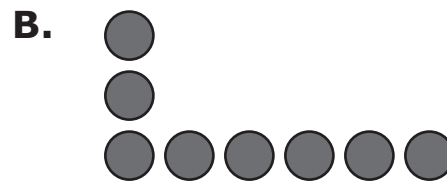
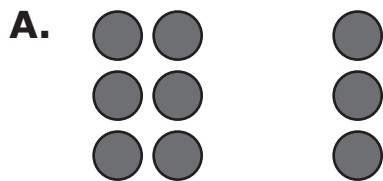
4. Subtract.

$$6,905 - 37$$

- A. 3,205
- B. 6,868
- C. 6,932
- D. 6,968



5. Which model shows 6×3 ?



6. Malik has 64 marbles.

He puts an equal number of marbles into each of 4 jars.

How many marbles are in each jar?

- A. 14
- B. 15
- C. 16
- D. 18

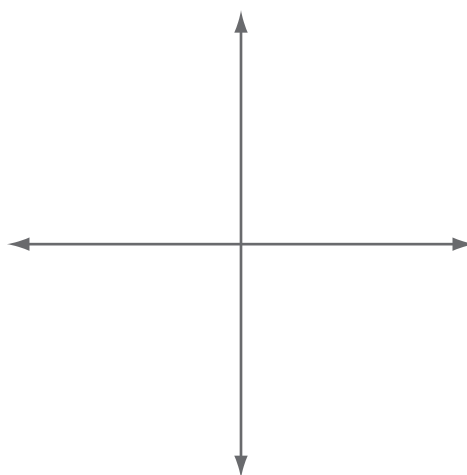


7. Multiply.

$$507 \times 6$$

- A. 342
- B. 3,002
- C. 3,042
- D. 3,102

8. Two lines are shown.



Which describes the relationship between the lines?

- A. Parallel
- B. Perpendicular
- C. Square
- D. Straight

Mathematics Test — Segment 2



9. Which number has a 5 in the ten thousands place?

- A.** 104,352
 - B.** 365,971
 - C.** 582,607
 - D.** 951,480
-

10. Connie lists her scores from a video game.

14,087 13,345 14,613 14,301

Which list shows the scores listed from greatest to least?

- A.** 14,613 13,345 14,301 14,087
- B.** 14,613 14,301 14,087 13,345
- C.** 14,087 14,613 14,301 13,345
- D.** 13,345 14,087 14,301 14,613



11. Jeff had 1,350 glass beads and 695 clay beads.

He sold 138 glass beads and 47 clay beads.

How many beads did Jeff have left?

- A.** 470
- B.** 746
- C.** 1,860
- D.** 2,230

12. Cory has 2 red crayons and 1 blue crayon.

What fraction of Cory's crayons is red?

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



13. Gavin has 4 green apples and 4 red apples.

Tara has 4 green apples and 8 red apples.

Who has a greater fraction of green apples?

- A.** Gavin, because $\frac{4}{8}$ is greater than $\frac{4}{12}$
- B.** Tara, because $\frac{4}{12}$ is greater than $\frac{4}{8}$
- C.** Tara, because 12 is greater than 8
- D.** They both have the same fraction of green apples.



14. Ellen has a vase of flowers.

- $\frac{1}{8}$ are red.
- $\frac{1}{3}$ are blue.
- $\frac{1}{6}$ are purple.
- $\frac{1}{4}$ are yellow.

Which is the greatest fraction?

- A.** $\frac{1}{8}$
- B.** $\frac{1}{3}$
- C.** $\frac{1}{6}$
- D.** $\frac{1}{4}$



15. A table is shown.

Input	Output
2	12
4	24
8	48

What is the output number when the input number is 12?

- A. 2
- B. 60
- C. 72
- D. 96

16. Which story problem can be solved using the number sentence $2 \times n = 18$?

- A. Tom had 18 pencils. He gave n pencils away and had 2 left over. How many pencils did Tom give away?
- B. Alice bought n books and spent \$18. Each book cost \$2. How many books did Alice buy?
- C. Maya had n rocks and 2 baskets. She put 18 rocks in each basket. How many rocks did Maya have?
- D. Pedro saw 2 kinds of birds. He saw 18 robins and n crows. How many crows did Pedro see?



17. An equation is shown.

$$3 \times 7 = \underline{\hspace{1cm}} + 7$$

What number makes the number sentence true?

- A.** 3
- B.** 14
- C.** 21
- D.** 28

18. Which shape has the fewest angles?

- A.** Hexagon
- B.** Octagon
- C.** Pentagon
- D.** Trapezoid



19. The perimeter of a rectangle is 16 inches.

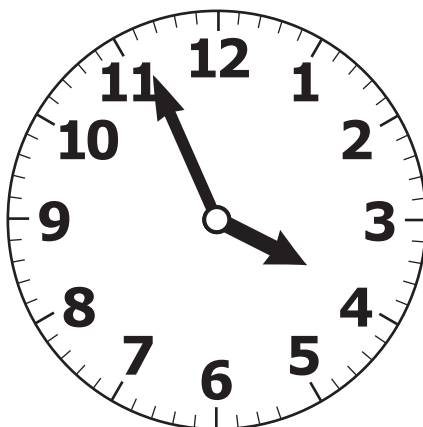
Its length is 5 inches.

What is its width?

- A.** 3 inches
- B.** 6 inches
- C.** 11 inches
- D.** 21 inches



20. Mai Ka starts reading a book at the time shown on the clock.



She stops reading 1 hour and 12 minutes later.

What time does Mai Ka stop reading?

- A. 4:08
- B. 4:44
- C. 5:04
- D. 5:08



- 21.** A movie is 2 hours and 28 minutes long.

How many minutes long is the movie?

- A.** 88 minutes
 - B.** 120 minutes
 - C.** 148 minutes
 - D.** 228 minutes
-

- 22.** Gina buys a snack for 59¢.

She pays with a \$1 bill.

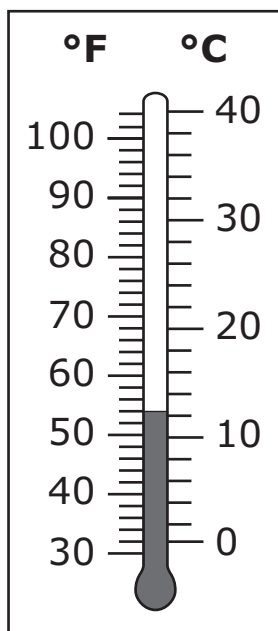
She receives the fewest possible coins in change.

What change does Gina receive?

- A.** 1 quarter, 1 dime, 1 nickel, and 1 penny
- B.** 2 quarters and 1 penny
- C.** 2 quarters, 1 nickel, and 4 pennies
- D.** 4 dimes and 1 penny



23. A thermometer is shown.

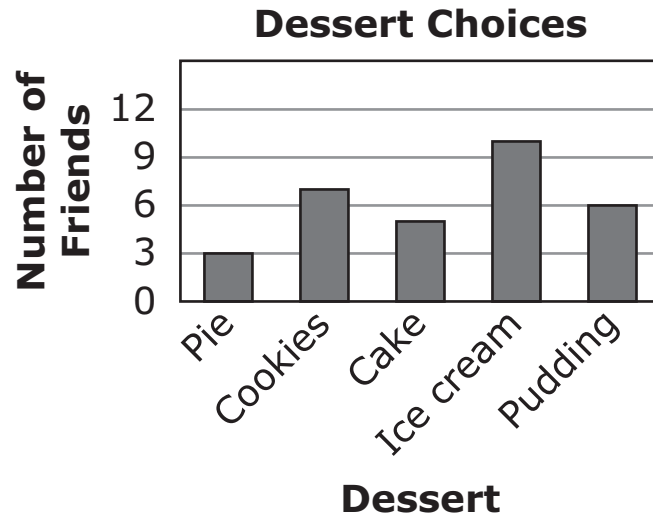


What temperature is shown on the thermometer?

- A.** 11°C
- B.** 12°F
- C.** 54°C
- D.** 54°F

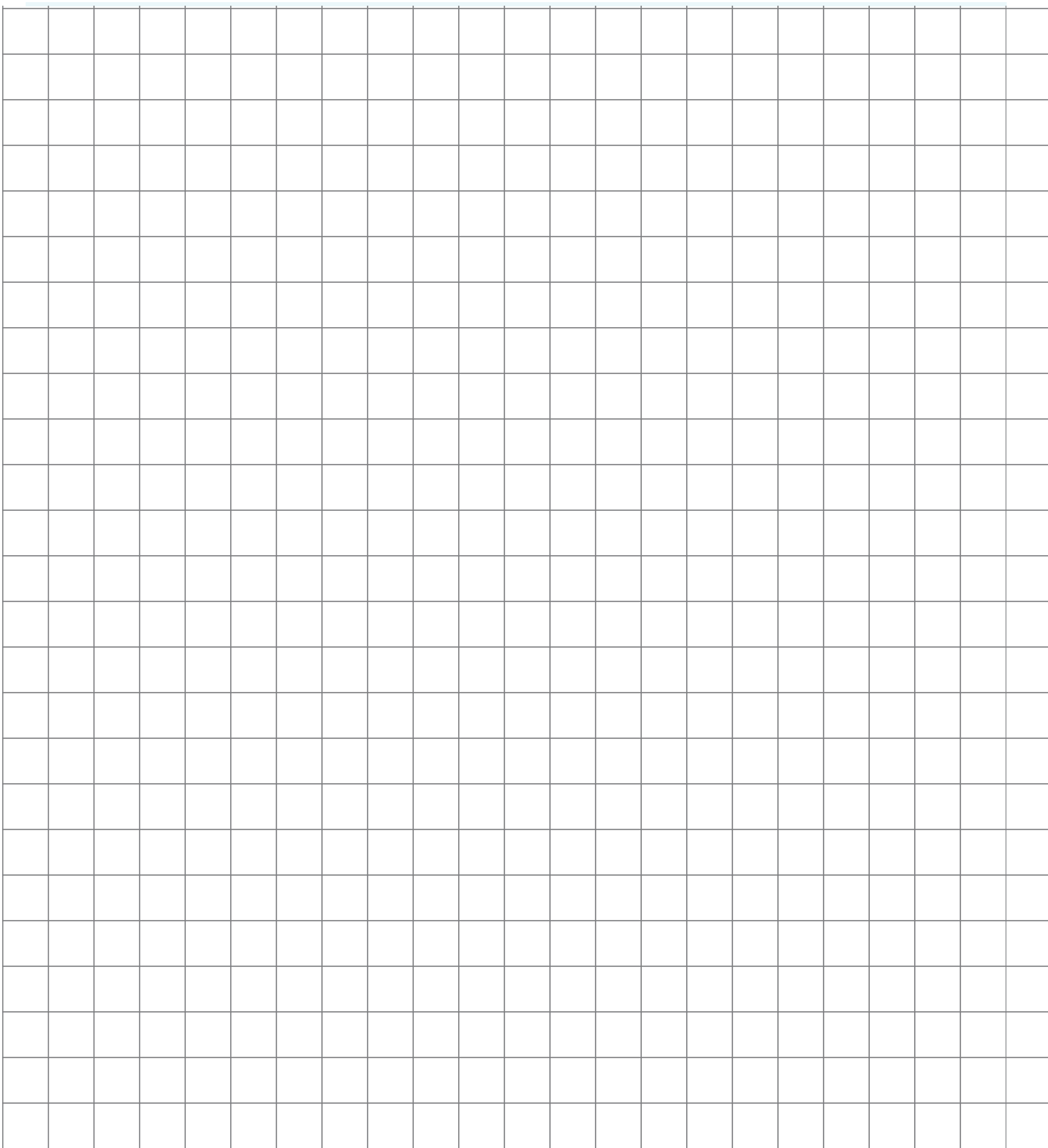


24. Leon asked his friends to choose a favorite dessert.



How many more friends chose ice cream than pie?

- A. 2
- B. 5
- C. 7
- D. 10



Grade 3 Teacher's Guide

MCA-III Item Sampler Answer Key Grade 3 Math

Item #	Correct Answer	Item Type	Strand	Standard	Benchmark
1	C	MC	1	1	01
2	C	MC	1	1	03
3	D	MC	1	1	04
4	B	MC	1	2	01
5	D	MC	1	2	03
6	C	MC	1	2	04
7	C	MC	1	2	05
8	B	MC	3	1	01
9	D	MC	1	1	02
10	B	MC	1	1	05
11	C	MC	1	2	02
12	C	MC	1	3	01
13	A	MC	1	3	02
14	B	MC	1	3	03
15	C	MC	2	1	01
16	B	MC	2	2	01
17	B	MC	2	2	02
18	D	MC	3	1	02
19	A	MC	3	2	02
20	D	MC	3	3	01
21	C	MC	3	3	02
22	A	MC	3	3	03
23	D	MC	3	3	04
24	C	MC	4	1	01

Grade 3 Teacher's Guide

Item # — The number of the question in the Item Sampler.

Correct Answer — Answers to multiple-choice questions are listed.

Item Type — Multiple Choice **(MC)**

Strand — In mathematics, the MCA-III measures four strands:

1. Number and Operation
2. Algebra
3. Geometry and Measurement
4. Data Analysis and Probability

Standard — Each strand has one or more standards

Benchmark — Each standard has one or more benchmarks. See the Academic Standards or test specification for further explanation of each benchmark.