New England Common Assessment Program

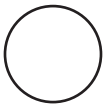
Released Items 2007

Grade 3 Mathematics

Mathematics

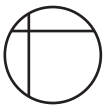
Item selected from Session One—no calculators or other mathematics tools allowed.

1 Look at this circle.



Which picture shows this circle divided into fourths?

○ A.

○ B. 

○ C.

○ D.

2 Which number sentence is true?

○ A. $16+8=6+8$

○ B. $12+6=9+9$

○ C. $5+9=12+4$

○ D. $11+7=18+1$

3 This chart shows the number of pennies three students saved.

Pennies Saved

Student	Number of Pennies
Joan	106
Harry	143
Marla	94

Which list shows the students in order from the student who saved the **fewest** pennies to the student who saved the **most** pennies?

○ A. Marla, Joan, Harry

○ B. Harry, Marla, Joan

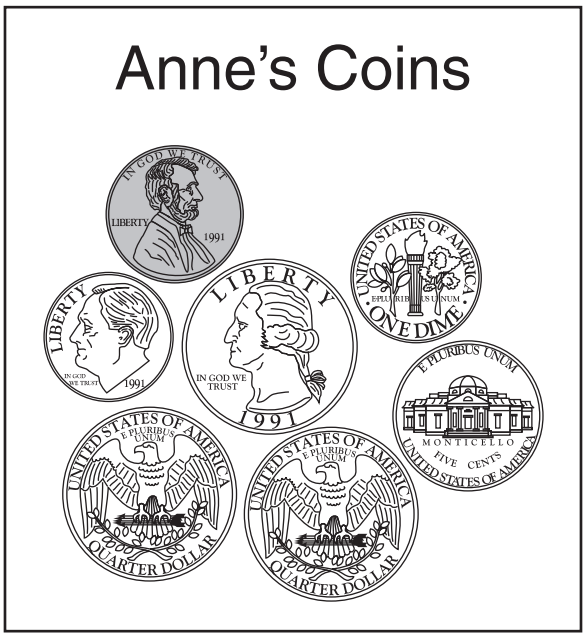
○ C. Joan, Harry, Marla

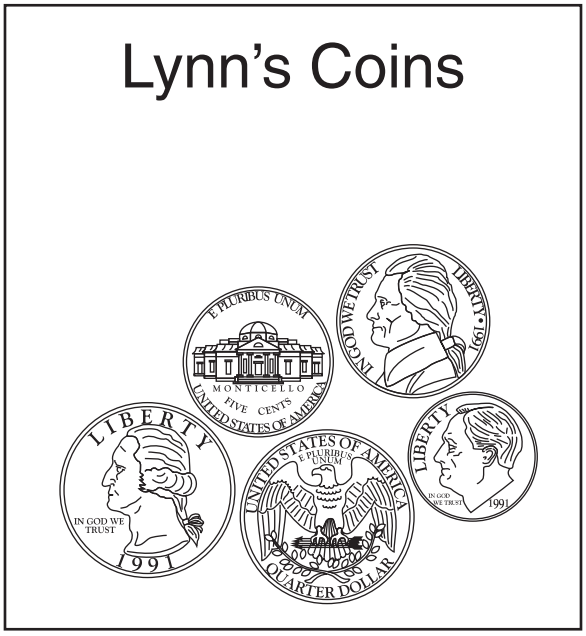
○ D. Marla, Harry, Joan

4 Rico had 26 grapes. Then he ate some of his grapes. Now Rico has 9 grapes. How many grapes did Rico eat?

- ○ A. 13
- ○ B. 15
- ○ C. 16
- ○ D. 17

5 Look at Anne's coins and Lynn's coins.





How much more money does Anne have than Lynn?

- ○ A. $0.21
- ○ B. $0.31
- ○ C. $0.36
- ○ D. $0.40

6 Which set of coins has the same value as 20 pennies?

○ A.

○ B.

○ C.

○ D.

7 Look at this clock.

What time does the clock show?

- ○ A. 3:10
- ○ B. 10:03
- ○ C. 10:15
- ○ D. 11:15

8 Juan circled numbers on this chart to make a number pattern.

1	2	(3)	4	5	6	7	8	(9)	10
11	12	13	14	(15)	16	17	18	19	20
(21)	22	23	24	25	26	(27)	28	29	30
31	32	(33)	34	35	36	37	38	(39)	40
41	42	43	44	45	46	47	48	49	50

What is the next number Juan should circle to continue his pattern?

- ○ A. 42
- ○ B. 45
- ○ C. 46
- ○ D. 50

9 Look at this number sentence.

$$\begin{array}{r} 14 \\ +\ \square \\ \hline 24 \end{array}$$

What number makes this number sentence true?

- ○ A. 10
- ○ B. 20
- ○ C. 24
- ○ D. 38

10 This chart shows the types of books some students like best.

Favorite Types of Books

Type of Book	Number of Students
Animal	11
Sports	7
People	5
Science	9

How many more students like animal books than people books?

- ○ A. 5
- ○ B. 6
- ○ C. 11
- ○ D. 16

⓫ Look at these shapes and their values.

Shape	Value
□	100
|	10
X	1

Use each shape at least one time to show the number one hundred forty-five.

⓬ Matt had 5 marbles. Then Renee gave him some marbles. Now Matt has 14 marbles.

Write a number sentence to show how many marbles Renee gave Matt.

13 This table shows the number of vans needed to take students on a camping trip.

Number of Vans	Number of Students
2	14
3	21
4	28
5	?
6	42

Each van takes the same number of students. How many students can 5 vans take on the camping trip?

14 The chart below shows the game scores for Paula, Cory, and Teresa.

Game Scores

Name	Game 1	Game 2	Game 3	Total Score
Paula	4	6	8	18
Cory	9	5	5	
Teresa	5	7		

a. What is Cory's total score?

b. Teresa's **total** score was greatest. What is the lowest score Teresa could have for **game 3**?

15 Look at these shapes.

a. Sort these shapes into two sets. Put the letters or draw the shapes in the chart below.

Set 1	Set 2

b. Use math words to tell how you sorted the shapes.

16 Look at this pictograph.

Dogs at the Park

Type of Dog	Number of Dogs
Beagle	
Collie	
Poodle	
Dalmatian	

Key
represents 1 dog

a. Write a word problem that can be answered using the information in this pictograph.

b. Answer the word problem you wrote.

Grade 3 Mathematics Released Item Information

Released Item Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
No Tools Allowed		✓		✓								✓		✓		
Content Strand[1]	NO	NO	NO	NO	NO	NO	GM	FA	FA	DP	NO	NO	FA	NO	GM	DP
GLE Code	2-1	2-1	2-2	2-3	2-5	2-5	2-7	2-1	2-4	2-2	2-1	2-3	2-1	2-2	2-1	2-1
Depth of Knowledge Code	1	2	2	1	2	1	1	2	1	2	2	2	2	3	2	3
Item Type[2]	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC	SA	SA	SA	SA	SA	SA
Answer Key	D	B	A	D	B	B	C	B	A	B						
Total Possible Points	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2

[1]Content Strand: NO = Numbers & Operations, GM = Geometry & Measurement, FA = Functions & Algebra, DP = Data, Statistics, & Probability

[2]Item Type: MC = Multiple Choice, SA = Short Answer