American Mathematics Place Value (Chapter 1) 3*rd - 4th* week

5th Grade - 5A - 5B

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TEST on 17th Sept on Chapter 1

Nikolaos Karaliotas,
nikolaos.karaliotas@archimedean.org

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Name _____

Numerical Expressions

COMMON CORE STANDARD MACC.5.OA.1.2
Write and interpret numerical expressions.

Write an expression to match the words.

1. Ethan collected 16 seashells. He lost 4 of them while walking home.

$$16 - 4$$

2. Yasmine bought 4 bracelets. Each bracelet cost $3.

_____

3. Amani did 10 jumping jacks. Then she did 7 more.

_____

4. Darryl has a board that is 8 feet long. He cuts it into pieces that are each 2 feet long.

_____

Write words to match the expression.

5. $3 + (4 \times 12)$

_____
_____
_____

6. $36 \div 4$

_____
_____
_____

7. $24 - (6 + 3)$

_____
_____
_____

Draw a line to match the expression with the words.

8. Ray picked 30 apples and put them equally into 3 baskets. Then he ate two of the apples in a basket.

$(3 \times 2) \times 30$

9. Quinn had $30. She bought a notebook for $3 and a pack of pens for $2.

$(30 \div 3) - 2$

10. Colleen runs 3 miles twice a day for 30 days.

$30 - (3 + 2)$

Problem Solving REAL WORLD

11. Kylie has 14 polished stones. Her friend gives her 6 more stones. Write an expression to match the words.

_____

12. Rashad had 25 stamps. He shared them equally among himself and 4 friends. Then Rashad found 2 more stamps in his pocket. Write an expression to match the words.

_____

Lesson Check (MACC.5.OA.1.2)

1. Jenna bought 3 packs of bottled water, with 8 bottles in each pack. Then she gave 6 bottles away. Which expression matches the words?

   (A) $(3 + 8) + 6$

   (B) $(3 \times 8) \times 6$

   (C) $(3 \times 8) + 6$

   (D) $(3 \times 8) - 6$

2. Stephen had 24 miniature cars. He gave 4 cars to his brother. Then he passed the rest of the cars out equally among 4 of his friends. Which operation would you use to represent the first part of this situation?

   (A) addition

   (B) subtraction

   (C) division

   (D) multiplication

Spiral Review (MACC.5.NBT.1.2, MACC.5.NBT.2.5, MACC.5.NBT.2.6)

3. To find $36 + 29 + 14$, Joshua rewrote the expression as $36 + 14 + 29$. What property did Joshua use to rewrite the expression? (Lesson 1.3)

   (A) Commutative Property of Multiplication

   (B) Commutative Property of Addition

   (C) Associative Property of Addition

   (D) Associative Property of Multiplication

4. There are 6 baskets on the table. Each basket has 144 crayons in it. How many crayons are there in all? (Lesson 1.6)

   (A) 644

   (B) 664

   (C) 844

   (D) 864

5. Mr. Anderson wrote $(7 \times 9) \times 10^3$ on the board. What is the value of that expression? (Lesson 1.5)

   (A) 630

   (B) 6,300

   (C) 63,000

   (D) 630,000

6. Barbara mixes 54 ounces of granola and 36 ounces of raisins. She divides the mixture into 6-ounce servings. How many servings does she make? (Lesson 1.9)

   (A) 3

   (B) 12

   (C) 15

   (D) 96

Evaluate Numerical Expressions

COMMON CORE STANDARD MACC.5.OA.1.1
Write and interpret numerical expressions.

Evaluate the numerical expression.

1. $24 \times 5 - 41$
$120 - 41$

79

2. $(32 - 20) \div 4$

3. $16 \div (2 + 6)$

4. $15 \times (8 - 3)$

5. $4 \times 8 - 7$

6. $27 + 5 \times 6$

7. $3 \div 3 \times 4 + 6$

8. $14 + 4 \times 4 - 9$

Rewrite the expression with parentheses to equal the given value.

9. $3 \times 4 - 1 + 2$

value: 11

10. $2 \times 6 \div 2 + 1$

value: 4

11. $5 + 3 \times 2 - 6$

value: 10

Problem Solving REAL WORLD

12. Sandy has several pitchers to hold lemonade for the school bake sale. Two pitchers can hold 64 ounces each, and four pitchers can hold 48 ounces each. How many total ounces can Sandy's pitchers hold?

13. At the bake sale, Jonah sold 4 cakes for $8 each and 36 muffins for $2 each. What was the total amount, in dollars, that Jonah received from these sales?

Lesson Check (MACC.5.OA.1.1)

1. What is the value of the expression $4 \times (4 - 2) + 6$?

(A) 6

(B) 14

(C) 24

(D) 40

2. Lannie ordered 12 copies of the same book for his book club members. The books cost $19 each, and the order has a $15 shipping charge. What is the total cost of Lannie's order?

(A) $243

(B) $213

(C) $199

(D) $161

Spiral Review (MACC.5.NBT.1.1, MACC.5.NBT.1.2, MACC.5.NBT.2.5, MACC.5.NBT.2.6)

3. A small company packs 12 jars of jelly into each of 110 boxes to bring to the farmers' market. How many jars of jelly does the company pack in all? **(Lesson 1.7)**

(A) 1,220

(B) 1,320

(C) 1,350

(D) 2,300

4. June has 42 sports books, 85 mystery books, and 69 nature books. She arranges her books equally on 7 shelves. How many books are on each shelf? **(Lesson 1.9)**

(A) 12

(B) 18

(C) 28

(D) 196

5. Last year, a widget factory produced one million, twelve thousand, sixty widgets. What is this number written in standard form?
(Lesson 1.2)

(A) 1,012,060

(B) 1,012,600

(C) 1,120,060

(D) 112,000,060

6. A company has 3 divisions. Last year, each division earned a profit of 5×10^5. What was the total profit the company earned last year? **(Lesson 1.4)**

(A) $50,000

(B) $150,000

(C) $500,000

(D) $1,500,000

Grouping Symbols

Evaluate the numerical expression.

1. $5 \times [(11 - 3) - (13 - 9)]$

$5 \times [8 - (13 - 9)]$
$5 \times [8 - 4]$
5×4

$\underline{\qquad 20 \qquad}$

2. $30 - [(9 \times 2) - (3 \times 4)]$

3. $36 \div [(14 - 5) - (10 - 7)]$

4. $7 \times [(9 + 8) - (12 - 7)]$

5. $[(25 - 11) + (15 - 9)] \div 5$

6. $[(8 \times 9) - (6 \times 7)] - 15$

7. $8 \times \{[(7 + 4) \times 2] - [(11 - 7) \times 4]\}$

8. $\{[(8 - 3) \times 2] + [(5 \times 6) - 5]\} \div 5$

Problem Solving REAL WORLD

Use the information at the right for 9 and 10.

9. Write an expression to represent the total number of muffins and cupcakes Joan sells in 5 days.

Joan has a cafe. Each day, she bakes 24 muffins. She gives away 3 and sells the rest. Each day, she also bakes 36 cupcakes. She gives away 4 and sells the rest.

_____

10. Evaluate the expression to find the total number of muffins and cupcakes Joan sells in 5 days.

_____

Lesson Check (MACC.5.OA.1.1)

1. What is the value of the expression?

   $9 \times [(21 - 4) - (2 + 7)]$

   (A) 72

   (B) 108

   (C) 190

   (D) 198

2. Which expression has a value of 24?

   (A) $[(17 - 9) \times (3 + 2)] \div 2$

   (B) $[(17 + 9) - (3 + 2)] - 2$

   (C) $[(17 - 9) \times (3 \times 2)] \div 2$

   (D) $[(17 - 9) + (3 \times 2)] \times 2$

Spiral Review (MACC.5.OA.1.2, MACC.5.NBT.1.1, MACC.5.NBT.2.5)

3. What is $\frac{1}{10}$ of 200? (Lesson 1.1)

   (A) 2

   (B) 20

   (C) 2,000

   (D) 20,000

4. The Park family is staying at a hotel near an amusement park for 3 nights. The hotel costs $129 per night. How much will their 3-night stay in the hotel cost? (Lesson 1.6)

   (A) $67

   (B) $369

   (C) $378

   (D) $387

5. Vidal bought 2 pizzas and cut each into 8 slices. He and his friends ate 10 slices. Which expression matches the words?

   (Lesson 1.10)

   (A) $(2 + 8) - 10$

   (B) $(2 \times 8) - 10$

   (C) $(2 \times 8) + 10$

   (D) $(2 \times 10) - 8$

6. What is the value of the underlined digit in 783,5<u>4</u>9,201? (Lesson 1.2)

   (A) 4

   (B) 40

   (C) 40,000

   (D) 400,000

Chapter 1 Extra Practice

Lessons 1.1 - 1.2

Complete the sentence.

1. 300 is 10 times as much as _____ .

2. 400 is $\frac{1}{10}$ of _____ .

Write the value of the underlined digit.

3. 4$\underline{5}$,130

4. 8,$\underline{1}$23,476

5. 153,$\underline{4}$71

6. 6,5$\underline{8}$3,450

_____   _____   _____   _____

Lesson 1.3

Complete the equation, and tell which property you used.

1. $(18 \times 2) \times 5 = 18 \times (2 \times$ _____ $)$

2. $64 + 58 =$ _____ $+ 64$

_____   _____

_____   _____

Lessons 1.4 - 1.5

Find the value.

1. 10^2

2. 10^5

3. 6×10^3

4. 8×10^7

_____   _____   _____   _____

5. $(6 \times 7) \times 10^3$

6. $(5 \times 4) \times 10^2$

7. $(3 \times 9) \times 10^6$

8. $(5 \times 8) \times 10^0$

_____   _____   _____   _____

Lessons 1.6 - 1.7

Estimate. Then find the product.

1. Estimate _____
$$\begin{array}{r} 429 \\ \times 5 \\ \hline \end{array}$$

2. Estimate _____
$$\begin{array}{r} 1,785 \\ \times 8 \\ \hline \end{array}$$

3 Estimate _____
$$\begin{array}{r} 81 \\ \times 22 \\ \hline \end{array}$$

4. Estimate _____
$$\begin{array}{r} 558 \\ \times 44 \\ \hline \end{array}$$

5. 9×802

6. $3,699 \times 7$

7. 34×93

8. 678×87

_____   _____   _____   _____

Lessons 1.8 - 1.9

Solve.

1. Morton and three of his friends earned a total of $168 walking dogs. They want to share the money equally. How much will each person get?

2. To make fruit salad, Sara uses 28 ounces of pineapple, 21 ounces of apples, 19 ounces of bananas, and 16 ounces of mango. How many 6-ounce servings of fruit salad can Sarah make?

Lesson 1.10

Write an expression to match the words.

1. Marilyn has 8 pears. She eats 2 pears.

2. Lee spends $9 on 3 comic books. Each comic book costs the same amount.

3. Al bought 24 stickers. He gave away 11 stickers. Then he bought 8 more stickers.

4. Nicky has 4 boxes of markers. Each box contains 8 markers.

Lessons 1.11 - 1.12

Evaluate the numerical expression.

1. $3 + 4 \times 6$

2. $8 - 2 \times 3$

3. $5 \div 5 \times 7 + 1$

4. $8 + 56 - 8 \times 4$

5. $12 - (3 + 4)$

6. $[18 \div (2 \times 3)] \times 4$

7. $24 - \{[16 - (8 - 1)] \times 2\}$