

Freebie

Footloose

Footloose!

Order of Operations

9

$$28 - 9 \div 3 \times 2^3$$

28

$$6 \div (1+2) \times 5^2 - 25$$



Footloose!



Common Core State Standard:

- 5.OA.1** : 1. Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.
- 6.EE.2c**: 2. Write, read, and evaluate expressions in which letters stand for numbers.
c. Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).

Directions:

1. Copy enough Footloose grids for each student in the class, and distribute one grid to each student.
2. Give each student one of the 30 cards (it is best if these cards are laminated). If there are extra cards, they can be placed around the room for students to pick up as needed. If there are more than 30 students, students may share cards as they work.
3. Students should answer the question on their first card by writing the answer on their grid (not on the card), in the box with the number that corresponds to the number in the right hand corner of the question card.
4. After recording the answer, students should place the card in a "central location," like a chalk ledge or a table, and then take a new card to complete. (An alternate way to play - display the cards around the room and students may go to the cards in the order they choose.)
5. Students should continue to answer the questions one card at a time, returning each card as they finish, until they have filled the entire grid.
6. The "winner" of the game is the student who answers the most questions correctly!

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Footloose

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

1

$$6 \times 8 - 10$$

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2

$$21 \div 3 + 4$$

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3

$$6 + 4 \times 5$$

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4

$$19 - 12 \div 6$$

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5

$$30 \div 2 - 5 \times 2$$

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6

$$(7 + 3) \div 2 \times 3^2$$

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7

$$4 \times 12 + 5 \times 8 + 11$$

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8

$$17 - 2^2 + 3 \times 4$$

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9

$$28 - 9 \div 3 \times 2^3$$

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10

$$14 + 8 - (3 \times 5)$$

©MSMM2012

11

$$9 \times 8 - 13$$

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12

$$4^2 \div 2^2 - 8 \div 2$$

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13

$$5^3 =$$

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14

$$7^2 =$$

©MSMM2012

15

$$8 \times 2 \div 4 \times 5 \div 10$$

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16

$$7 \times 4 \div 2 - 3^2$$

©MSMM2012

17

$$14 - 8 + 2 - 6 + 7$$

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18

$$4^3 =$$

©MSMM2012

19

$$2^4 =$$

©MSMM2012

20

$$12^2 =$$

©MSMM2012

21

$$8^2 + 7^2$$

©MSMM2012

22

$$(3^2 + 5^2) \times 4^2$$

©MSMM2012

23

$$11^2 - 6^2 + 9^2$$

©MSMM2012

24

$$52 - (36 \div 3) \times 4$$

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25

$$18^0 =$$

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26

$$18^1 =$$

©MSMM2012

27

$$32 \times (3 + 2) + 8 \div 2$$

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28

$$6 \div (1+2) \times 5^2 - 25$$

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29

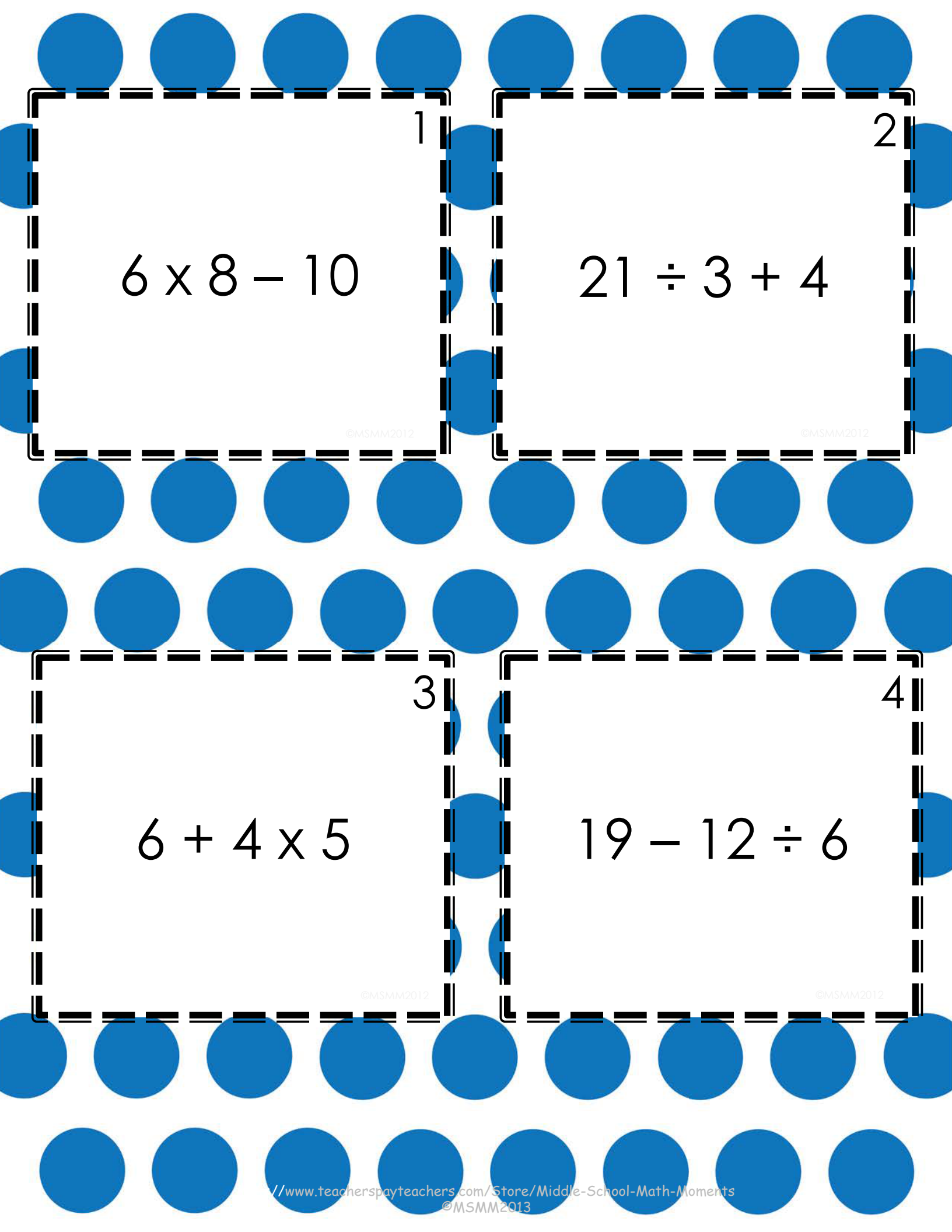
$$2^4 + (81 - 50) + 5$$

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30

$$21 \div (2+1) \times 5 - 2^2$$

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1

$$6 \times 8 - 10$$

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2

$$21 \div 3 + 4$$

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3

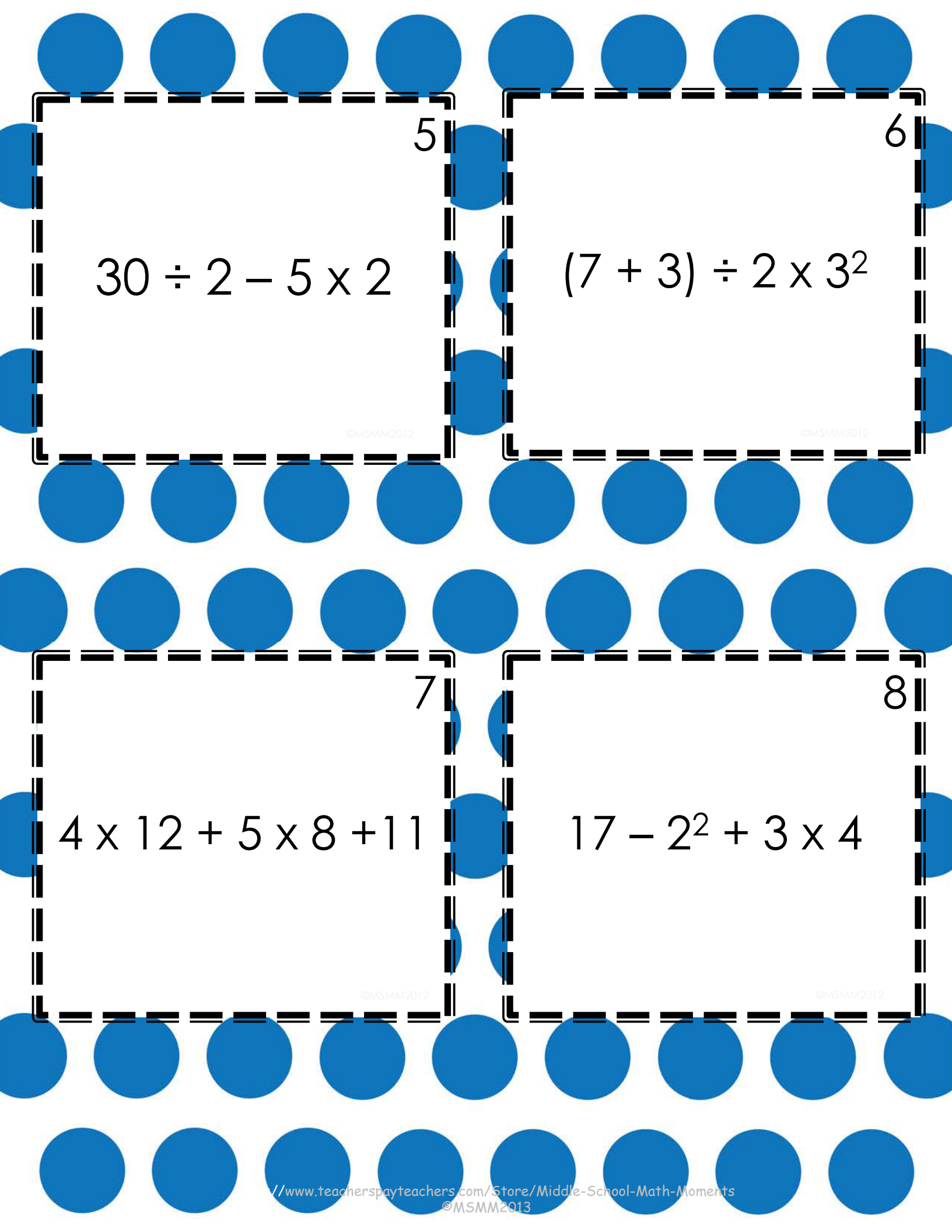
$$6 + 4 \times 5$$

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4

$$19 - 12 \div 6$$

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The page features a grid of blue circles. Four dashed black boxes are arranged in a 2x2 pattern. Each box contains a math problem and a number. The numbers 5, 6, 7, and 8 are placed at the top-right corner of each box. The math problems are: 30 ÷ 2 - 5 x 2, (7 + 3) ÷ 2 x 3^2, 4 x 12 + 5 x 8 + 11, and 17 - 2^2 + 3 x 4. Small copyright notices are visible at the bottom of each box.

5

$$30 \div 2 - 5 \times 2$$

6

$$(7 + 3) \div 2 \times 3^2$$

7

$$4 \times 12 + 5 \times 8 + 11$$

8

$$17 - 2^2 + 3 \times 4$$

9

$$28 - 9 \div 3 \times 2^3$$

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10

$$14 + 8 - (3 \times 5)$$

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11

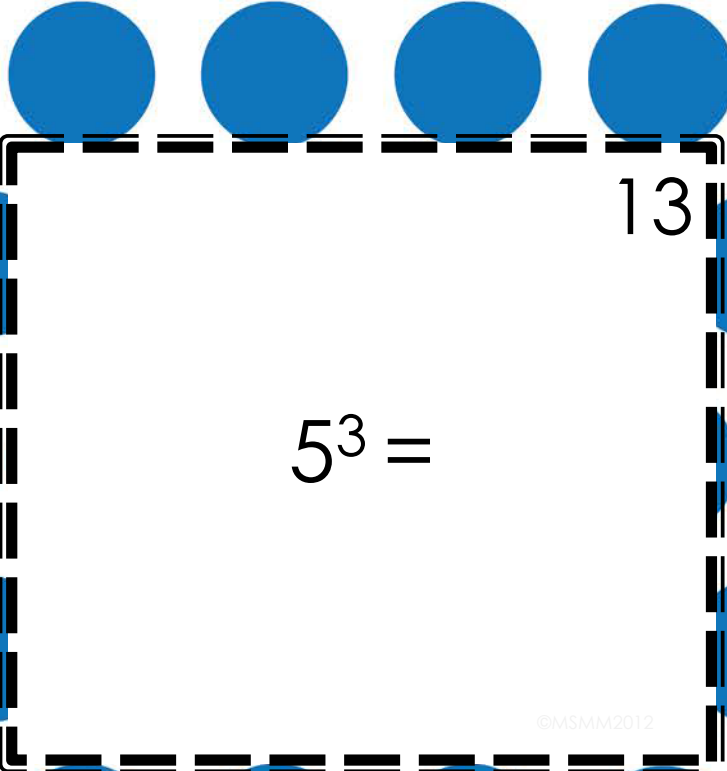
$$9 \times 8 - 13$$

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12

$$4^2 \div 2^2 - 8 \div 2$$

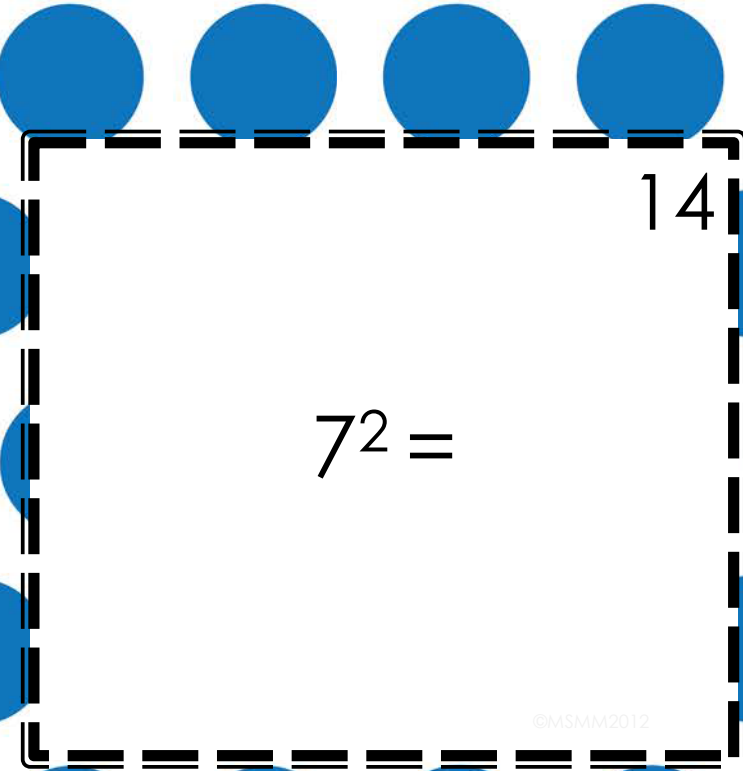
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$5^3 =$

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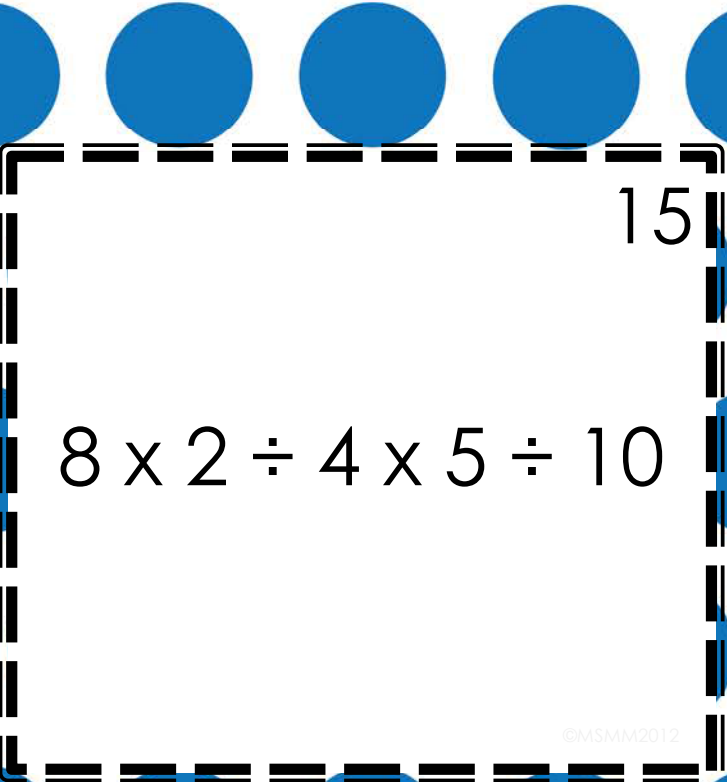
13



$7^2 =$

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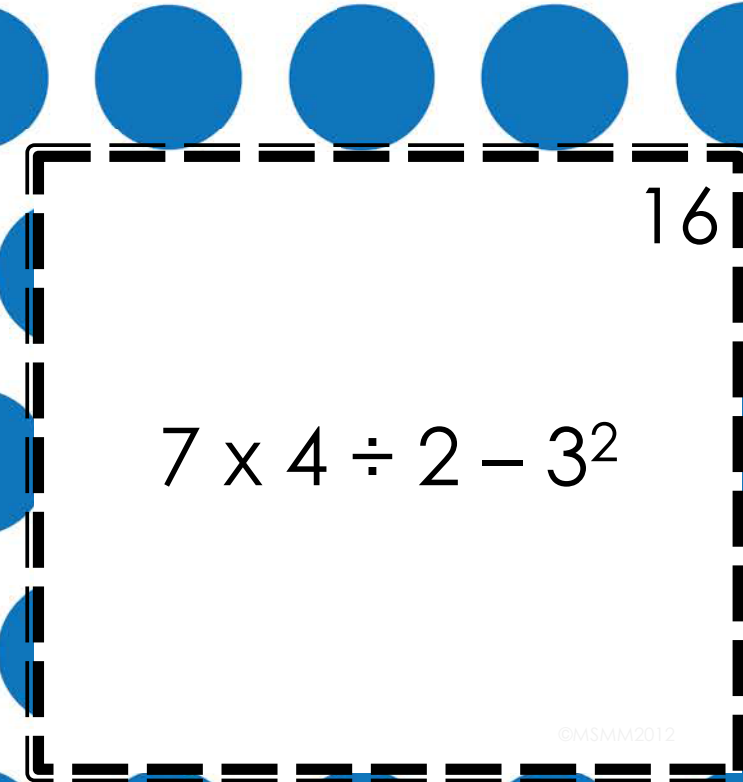
14



$8 \times 2 \div 4 \times 5 \div 10$

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15



$7 \times 4 \div 2 - 3^2$

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16

17

$$14 - 8 + 2 - 6 + 7$$

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18

$$4^3 =$$

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19

$$2^4 =$$

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20

$$12^2 =$$

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21

$8^2 + 7^2$

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22

$(3^2 + 5^2) \times 4^2$

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23

$11^2 - 6^2 + 9^2$

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24

$52 - (36 \div 3) \times 4$

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25

$18^0 =$

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26

$18^1 =$

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27

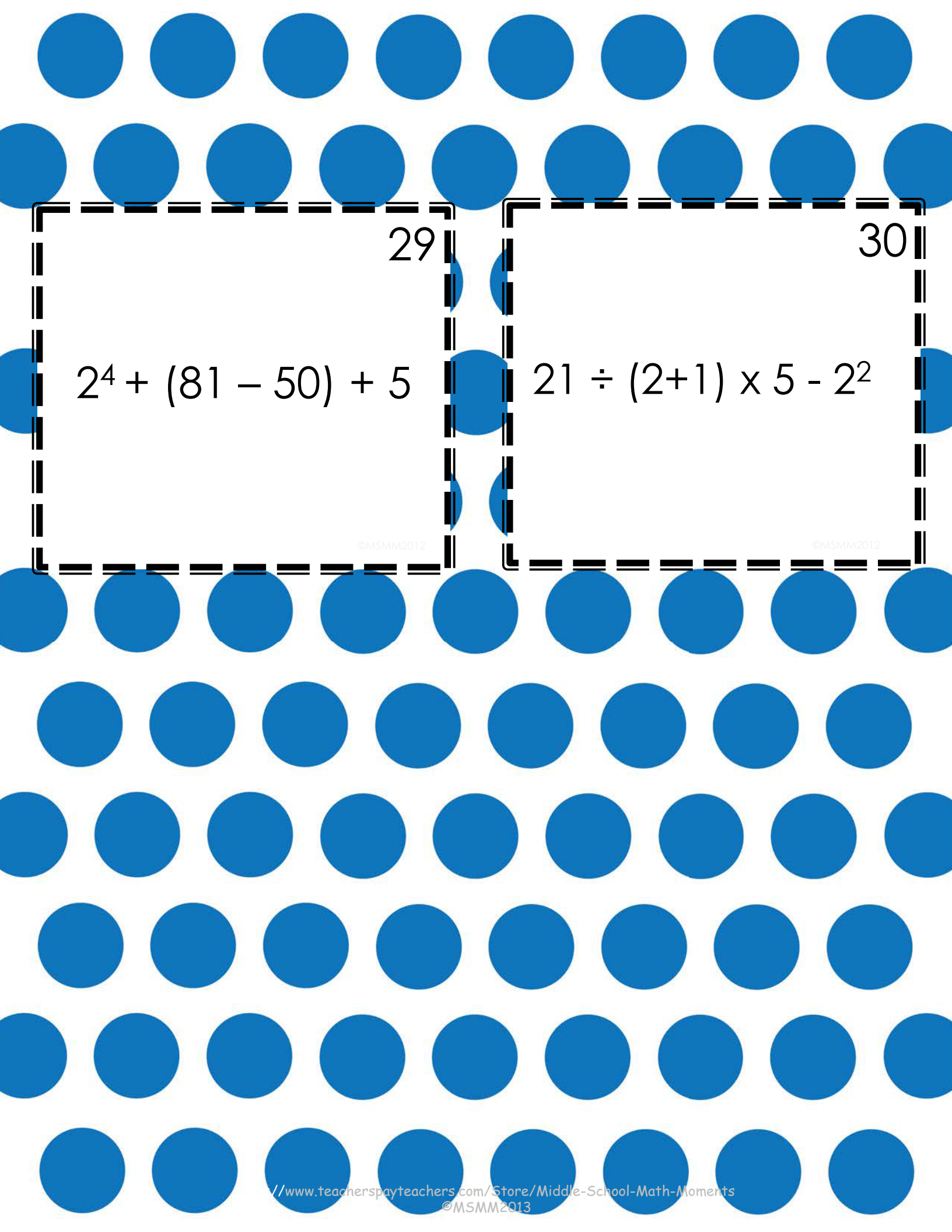
$32 \times (3 + 2) + 8 \div 2$

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$6 \div (1+2) \times 5^2 - 25$

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29

$$2^4 + (81 - 50) + 5$$

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30

$$21 \div (2+1) \times 5 - 2^2$$

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Footloose

Answer Key

1 $6 \times 8 - 10$ $48 - 10$ 38	2 $21 \div 3 + 4$ $7 + 4$ 11	3 $6 + 4 \times 5$ $6 + 20$ 26	4 $19 - 12 \div 6$ $19 - 2$ 17	5 $30 \div 2 - 5 \times 2$ $15 - 10$ 5
6 $(7 + 3) \div 2 \times 3^2$ $(7 + 3) \div 2 \times 9$ $10 \div 2 \times 9$ 5×9 45	7 $4 \times 12 + 5 \times 8 + 11$ $48 + 40 + 11$ $88 + 11$ 99	8 $17 - 2^2 + 3 \times 4$ $17 - 4 + 3 \times 4$ $17 - 4 + 12$ $13 + 12$ 25	9 $28 - 9 \div 3 \times 2^3$ $28 - 9 \div 3 \times 8$ $28 - 3 \times 8$ $28 - 24$ 4	10 $14 + 8 - (3 \times 5)$ $14 + 8 - 15$ $22 - 15$ 7
11 $9 \times 8 - 13$ $72 - 13$ 59	12 $4^2 \div 2^2 - 8 \div 2$ $16 \div 4 - 8 \div 2$ $4 - 4$ 0	13 $5^3 =$ $5 \times 5 \times 5 =$ 125	14 $7^2 =$ $7 \times 7 =$ 49	15 $8 \times 2 \div 4 \times 5 \div 10$ $16 \div 4 \times 5 \div 10$ $4 \times 5 \div 10$ $20 \div 10$ 2
16 $7 \times 4 \div 2 - 3^2$ $7 \times 4 \div 2 - 9$ $28 \div 2 - 9$ $14 - 9$ 5	17 $14 - 8 + 2 - 6 + 7$ $6 + 2 - 6 + 7$ $8 - 6 + 7$ $2 + 7$ 9	18 $4^3 =$ $4 \times 4 \times 4 =$ 64	19 $2^4 =$ $2 \times 2 \times 2 \times 2 =$ 16	20 $12^2 =$ $12 \times 12 =$ 144
21 $8^2 + 7^2$ $64 + 49$ 113	22 $(3^2 + 5^2) \times 4^2$ $(9 + 25) \times 16$ 34×16 544	23 $11^2 - 6^2 + 9^2$ $121 - 36 + 81$ $85 + 81$ 166	24 $52 - (36 \div 3) \times 4$ $52 - 12 \times 4$ $52 - 48$ 4	25 $18^0 =$ 1
26 $18^1 =$ 18	27 $32 \times (3 + 2) + 8 \div 2$ $32 \times 5 + 8 \div 2$ $160 + 4$ 164	28 $6 \div (1+2) \times 5^2 - 25$ $6 \div (1+2) \times 25 - 25$ $6 \div 3 \times 25 - 25$ $2 \times 25 - 25$ $50 - 25$ 25	29 $2^4 + (81 - 50) + 5$ $16 + (81 - 50) + 5$ $16 + 31 + 5$ $47 + 5$ 52	30 $21 \div (2+1) \times 5 - 2^2$ $21 \div (2+1) \times 5 - 4$ $21 \div 3 \times 5 - 4$ $7 \times 5 - 4$ $35 - 4$ 31

Thank you!

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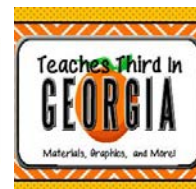
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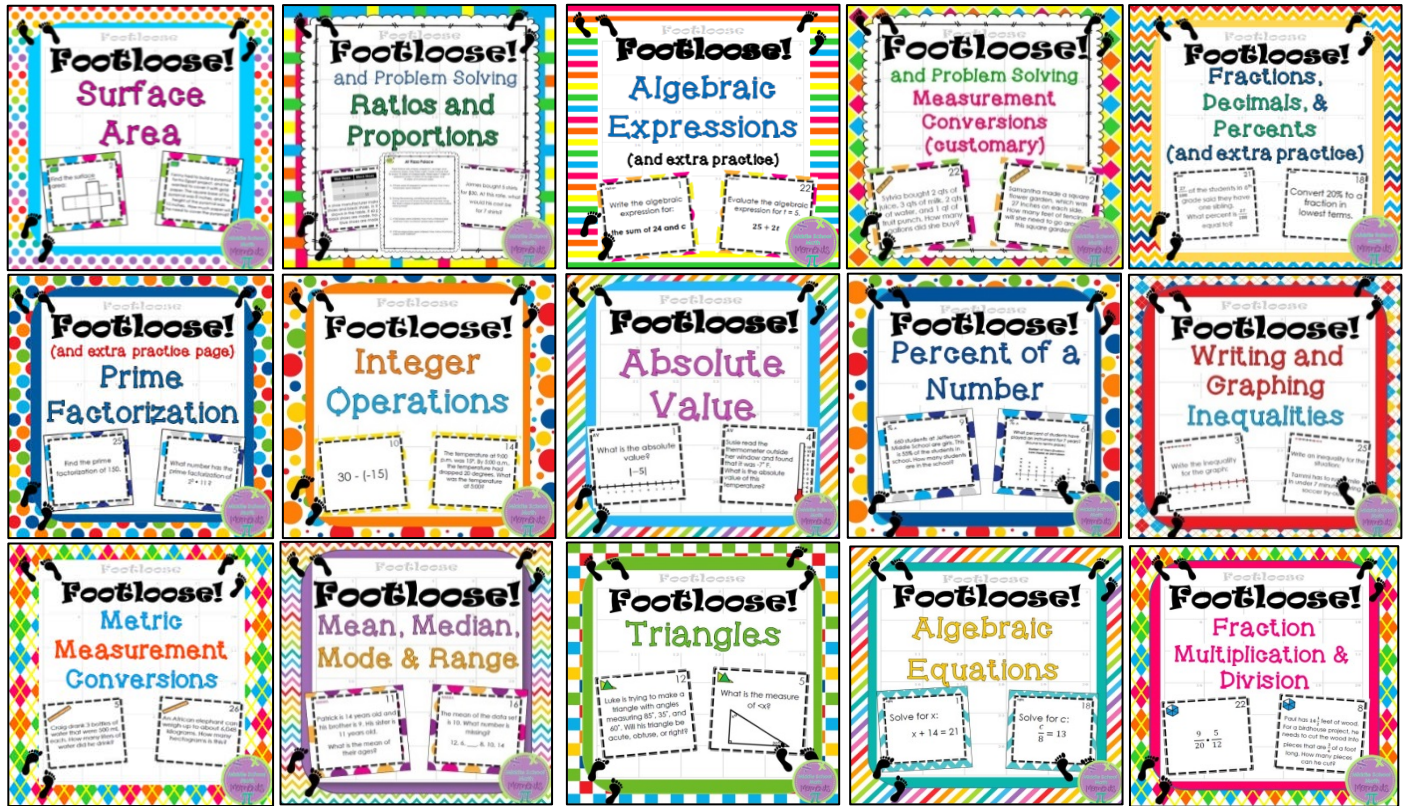
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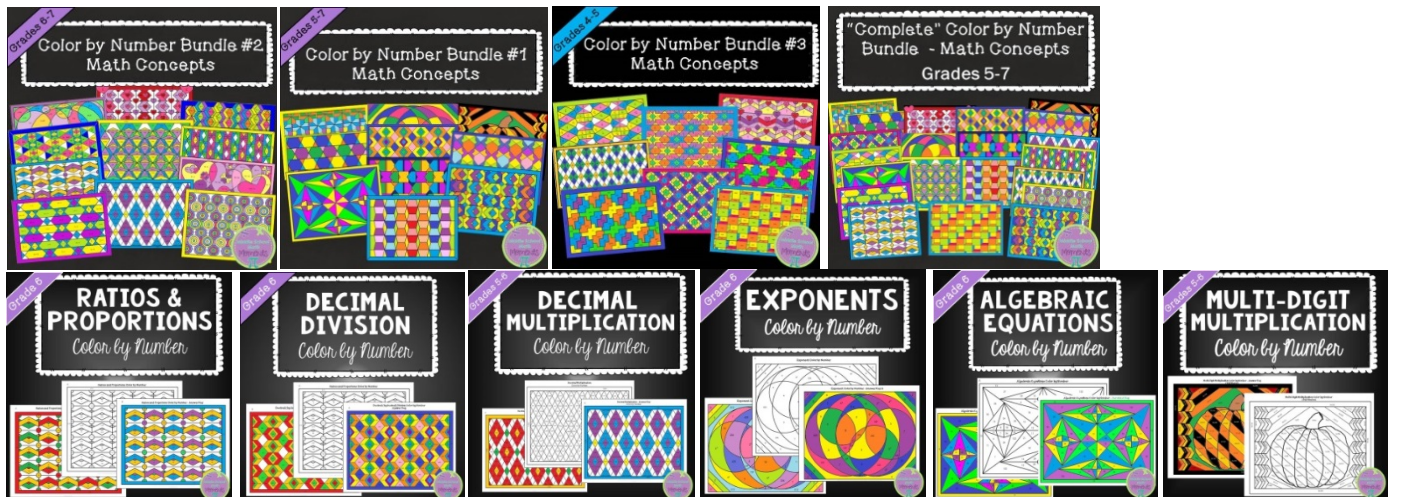


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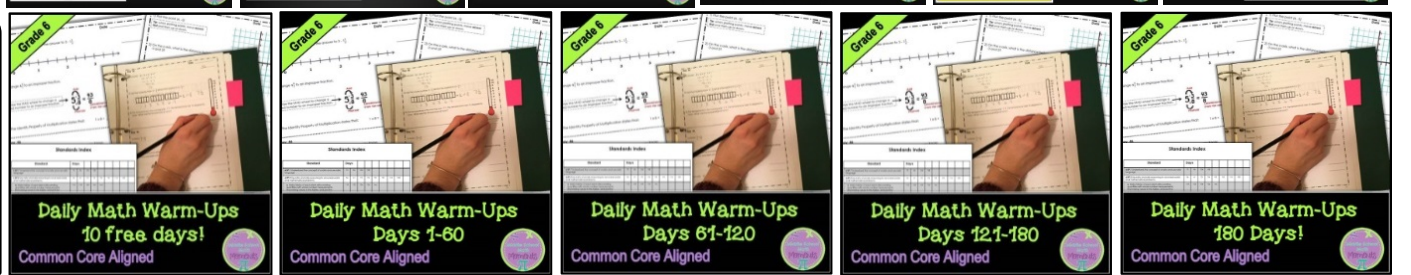
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