

Tuesday 9/3

Simplify:

1. $7(m - 5) + 3n$

$$7m - 35 + 3n$$

2. $-6(a + 1) + a$

$$-6a - 6 + a$$

$$-5a - 6$$

3. $(k - 3)(-2) + 17k$

$$-2k + 6 + 17k$$

$$15k + 6$$

associative PROPERTY

| | | |
|---|---|--|
| <p>algebra:</p> $(a+b)+c = a+(b+c)$ $(a \cdot b) \cdot c = a \cdot (b \cdot c)$ | <p>example:</p> $(3+6)+4 = 3+(6+4)$ $13 = 13$ $(2 \cdot 5) \cdot 4 = 2 \cdot (5 \cdot 4)$ $40 = 40$ | <p>definition:</p> <p>When you are <u>only</u> adding or <u>only</u> multiplying, you can group any of the #'s together.</p> |
|---|---|--|

Commutative PROPERTY

algebra:

$$a + b = b + a$$

$$a \cdot b = b \cdot a$$

example:

$$11 + 6 = 6 + 11$$

$$17 = 17$$

$$8 \cdot 7 = 7 \cdot 8$$

$$56 = 56$$

definition:

when adding or multiplying
it can be in any
order.

distributive PROPERTY

| | | |
|--|--|--|
| algebra: $a(b+c) = ab+ac$ $a(b-c) = ab-ac$ | example: $3(4+1) = 3(4) + 3(1)$ $15 = 15$ $3(4-1) = 3(4) - 3(1)$ $9 = 9$ | definition: you can multiply a # by a sum (difference) |
|--|--|--|

identity PROPERTY

algebra:

$$a + 0 = a$$

$$a \cdot 1 = a$$

example:

$$6 + 0 = 6$$

$$6 \cdot 1 = 6$$

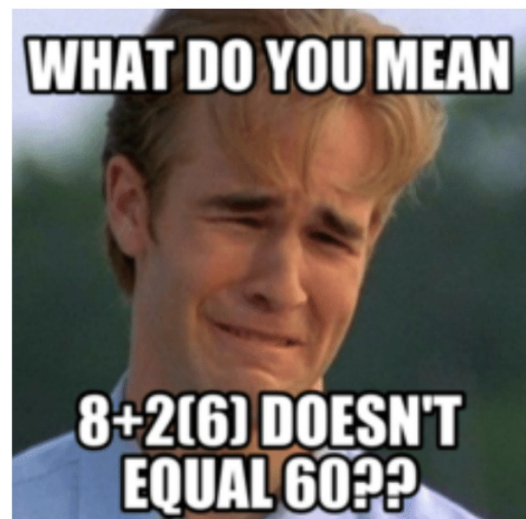
definition:

adding zero does not change the value.

Multiplying by 1 does not change the value.

Today I will be able to review PEMDAS

I can speak about PEMDAS using perenthesis, exponents, multiply, divide, addition and subtraction.



$6 \times 8 - 10$
 $48 - 10$
 38

1

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$21 \div 3 + 4$

$7 + 4$

2

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$6 + 4 \times 5$
 $6 + 20$
 26

3

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4

$$19 - 12 \div 6$$

19 - 2

17

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5

$$30 \div 2 - 5 \times 2$$
$$30 \div 2 = 15$$
$$15 - 10 = 5$$

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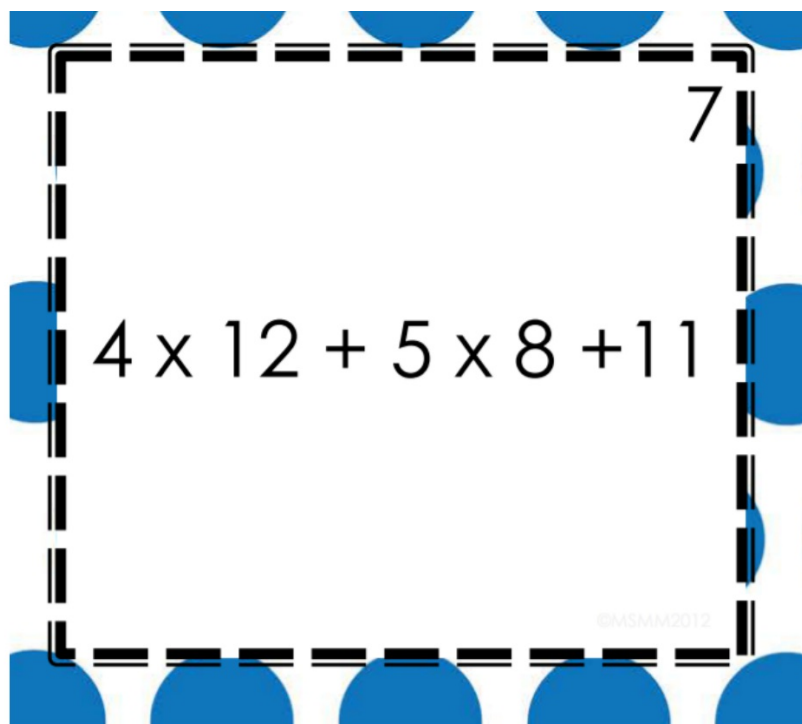
PEMDAS

6

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

$$10 \div 2 \cdot 9 \quad 5 \cdot 9$$

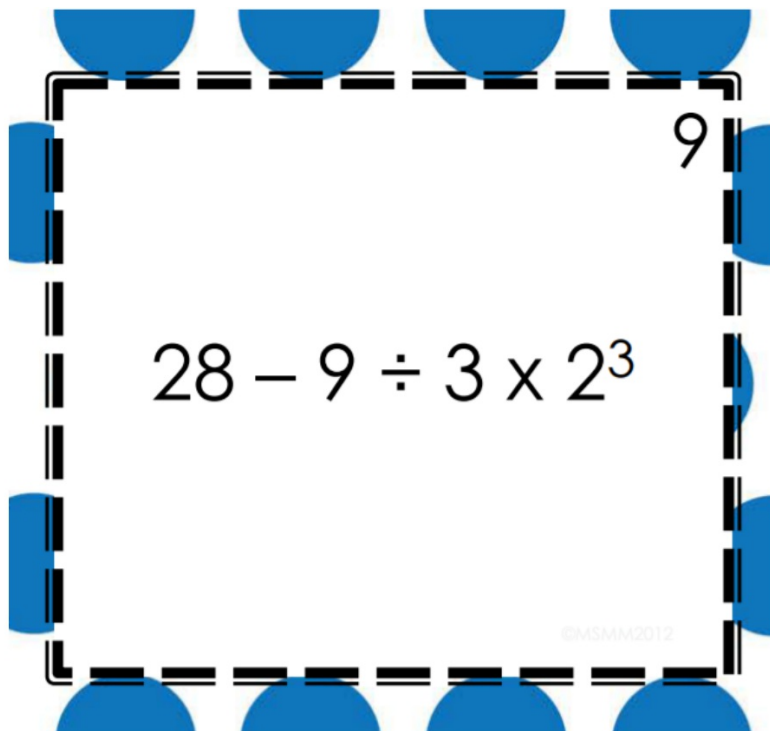
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8

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

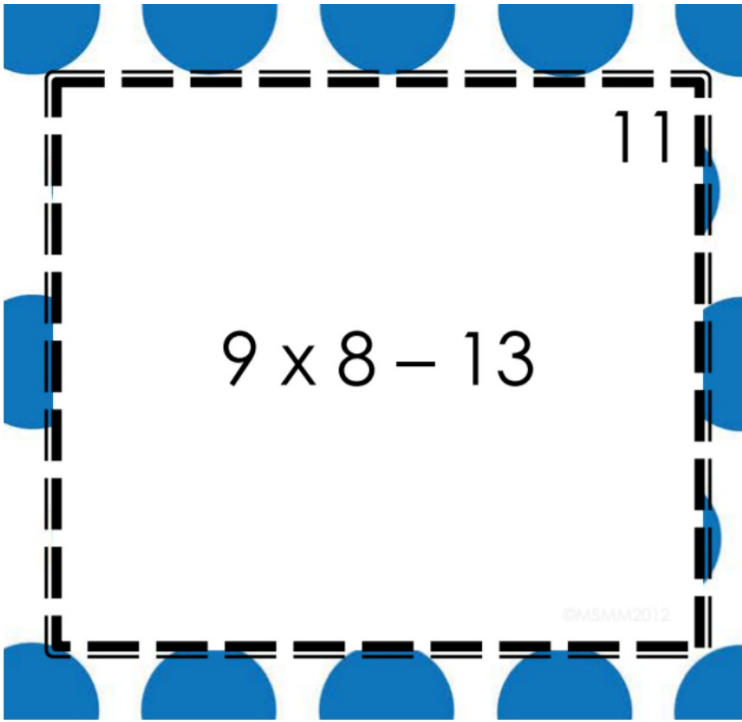
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10

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

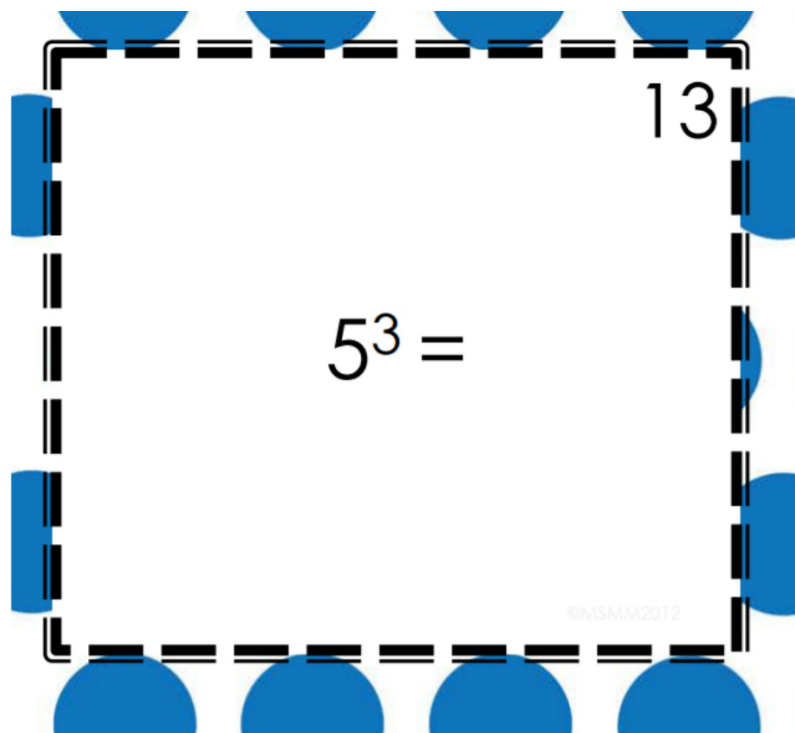
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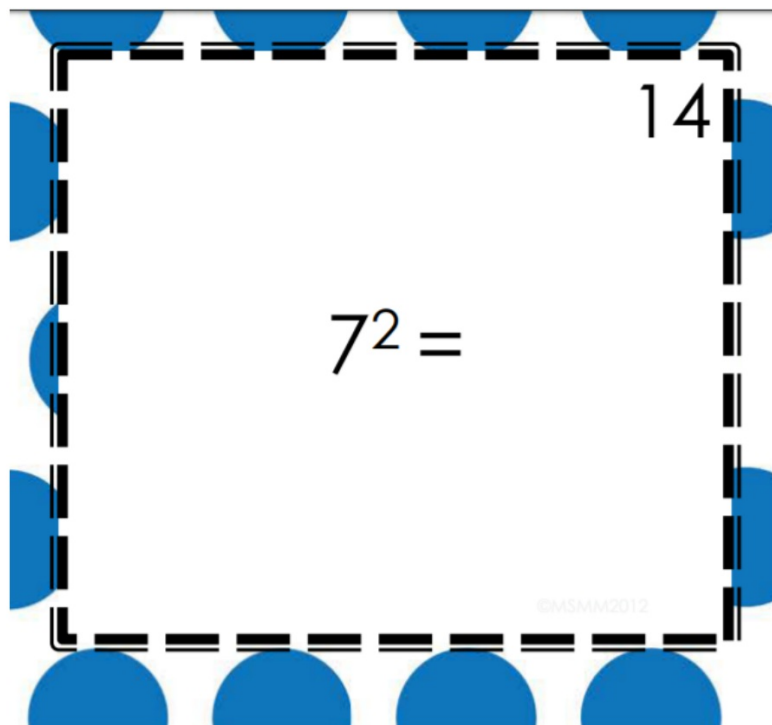


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$$4^2 \div 2^2 - 8 \div 2$$

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15

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

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

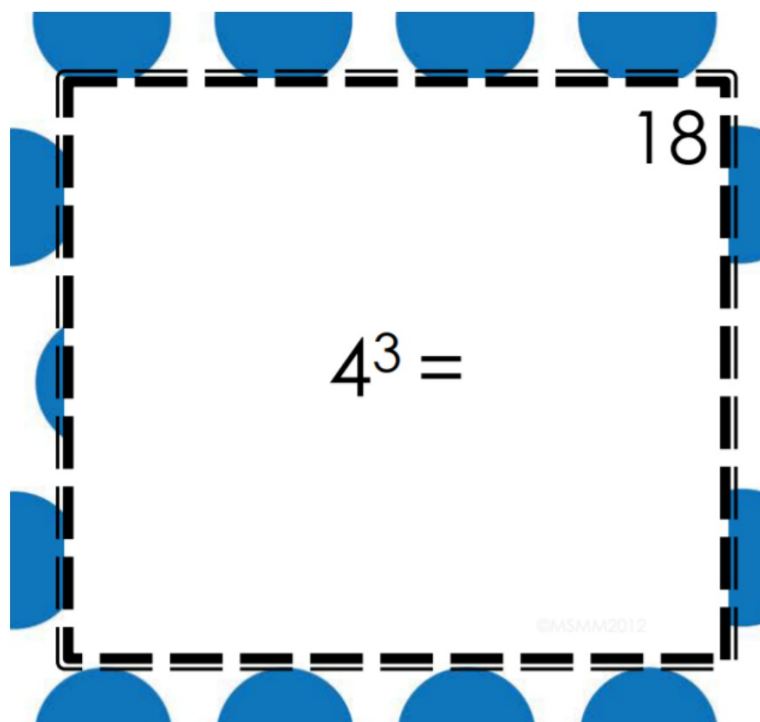
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17

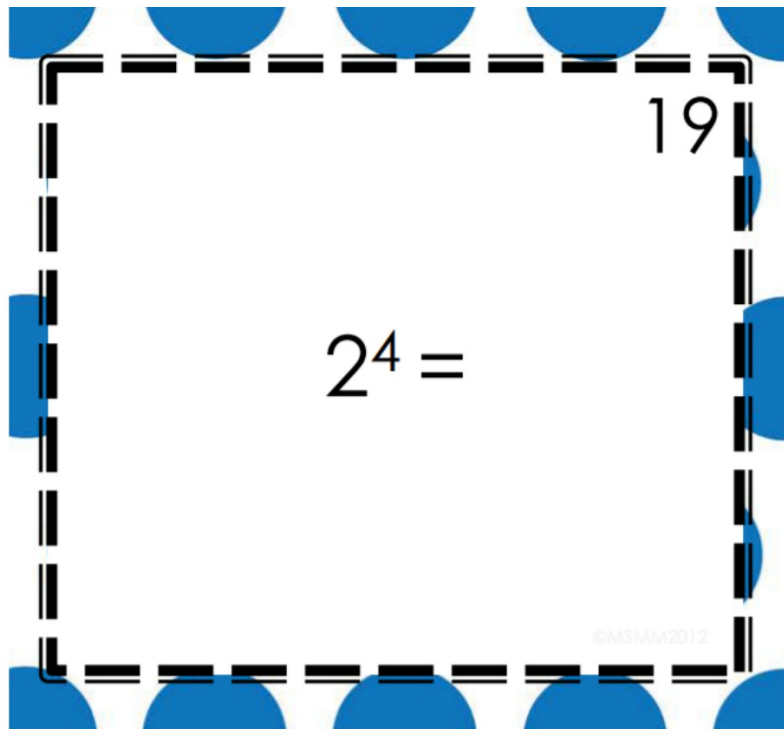
$$14 - 8 + 2 - 6 + 7$$

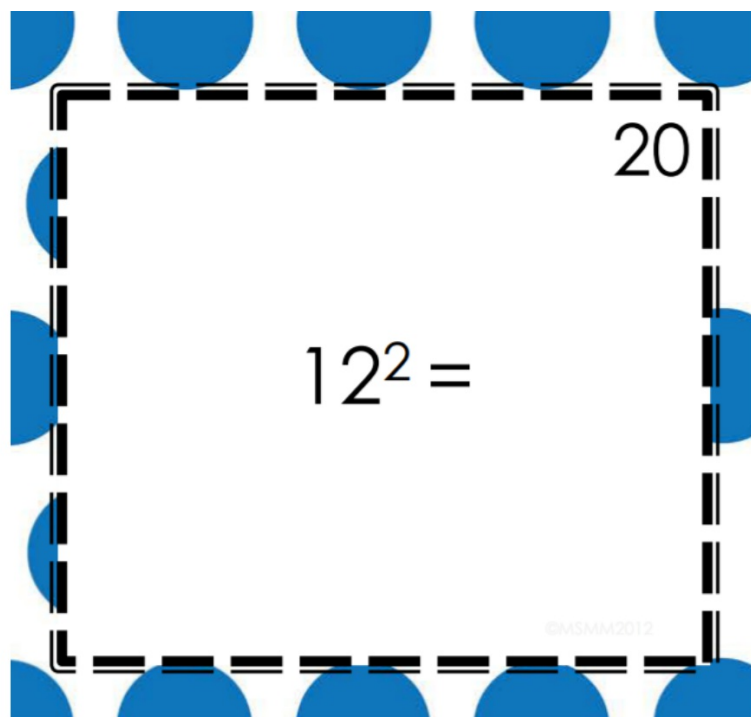
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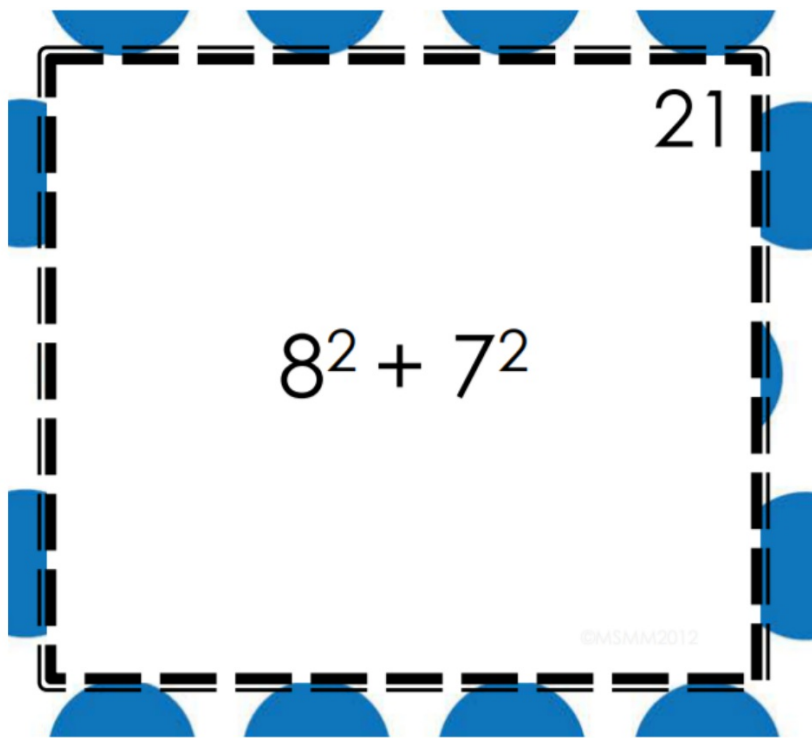


$$4^3 =$$

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

22

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

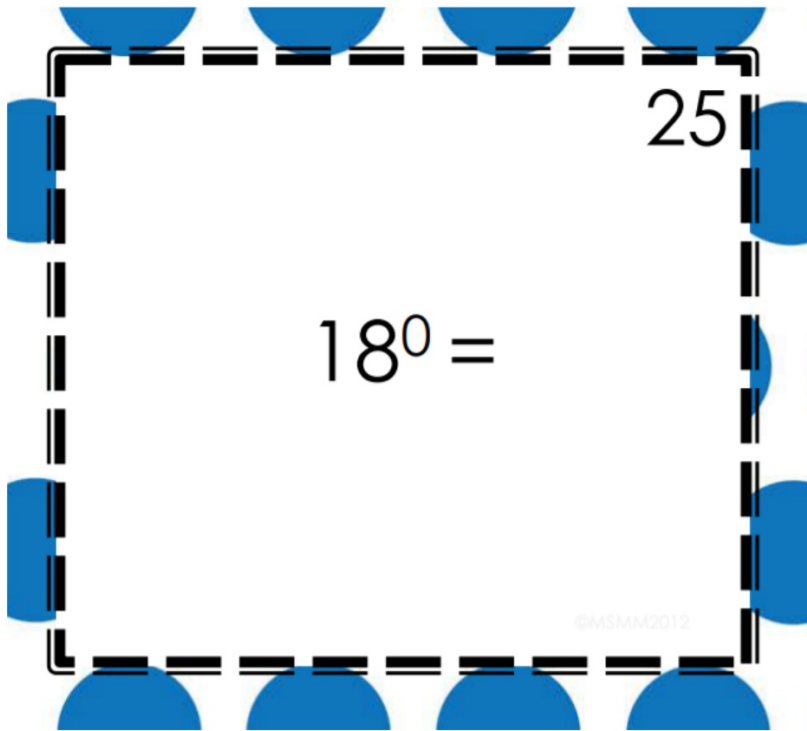
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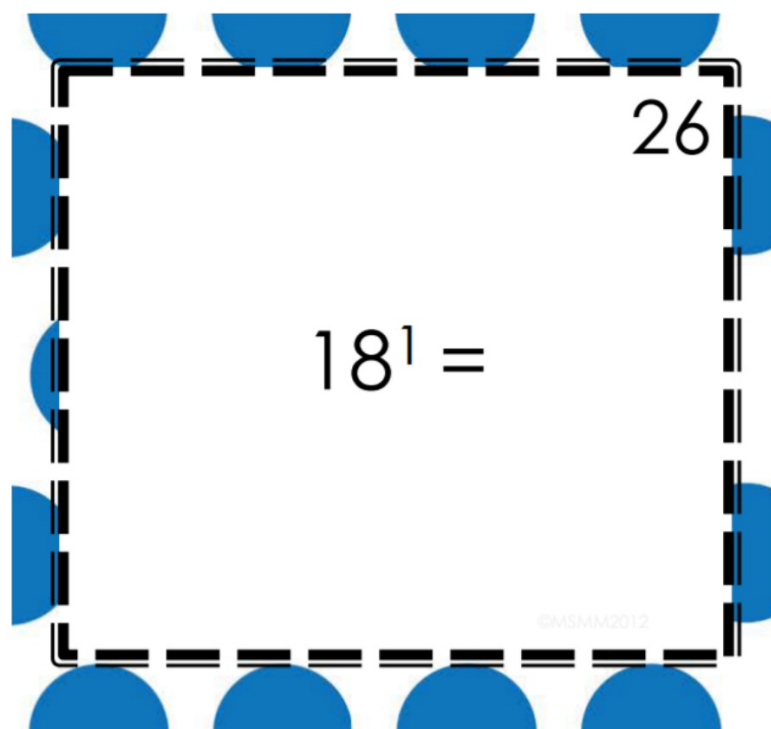
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$$52 - (36 \div 3) \times 4$$

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27

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

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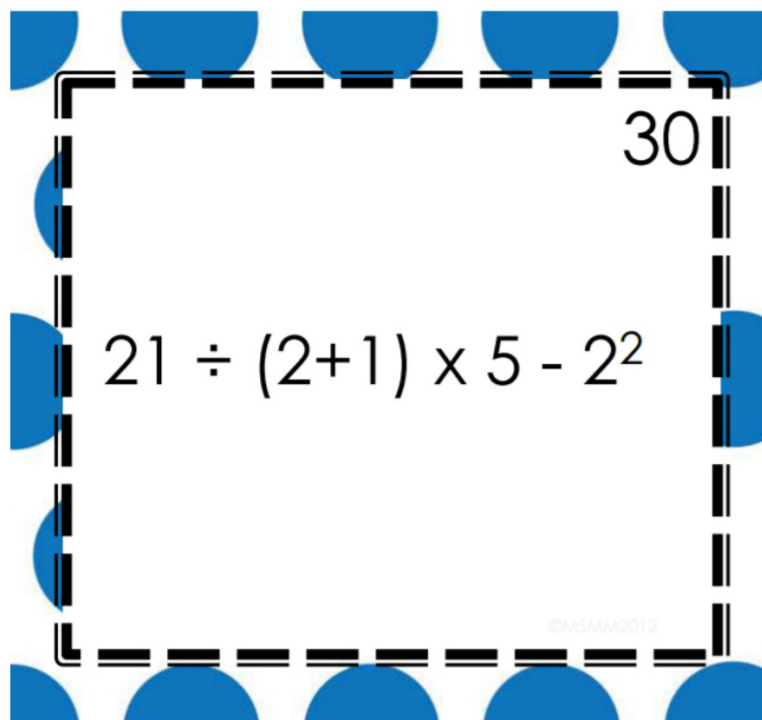
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$$6 \div (1+2) \times 5^2 - 25$$



29

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



30

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

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