Name _____ Date _____

1. The identity property that uses 1 applies to _____.

(A) × and ÷
(B) + and −
(C) − and ÷
(D) none of the above

2. In the order of operations, if there are no parentheses, _____ first.

(A) + or −
(B) × or ÷
(C) both A and B
(D) none of the above

3. The value of $6 \times (7 + 8)$ is _____.

(A) 42 + 48
(B) 6 × 15
(C) 90
(D) all of the above

4. In 5^2, the 2 is the _____.

(A) base number
(B) order
(C) exponent
(D) none of the above

5. In $4 - x = 4$, the _____ property applies.

(A) commutative
(B) associative
(C) identity
(D) none of the above

Complete the table. Use the table to answer questions 6-8.

quarters	1		3
nickels	5	10	

6. 10 nickels = _____ quarters.

(A) 2 (B) 5 (C) 3 (D) none of the above

7. 3 quarters = _____ nickels.

(A) 5 (B) 10 (C) 15 (D) none of the above

8. The ratio of nickels to quarters is _____.

(A) 1:5 (B) 5:1 (C) 5 − 1 (D) none of the above

9. Each soccer team has 11 players. What is the ratio of players to teams?

(A) 10:1
(B) 12:1
(C) 11:1
(D) none of the above

10. There are 9 soccer teams at the tournament. How many players are there?

(A) 20
(B) 2
(C) 100
(D) none of the above

Name _____ Date _____

Complete the tables. Use them to answer problems 21–23.

Table A

a	1			
$a+2$	3			

Table B

b	1			
$2b$	2			

21. In Table A, the values for $a+2$ are _____ numbers.

(A) always odd
(B) always even
(C) odd and even
(D) none of the above

22. In Table B, the values for $2b$ are _____ numbers.

(A) always odd
(B) always even
(C) odd and even
(D) none of the above

23. The values of a and b are located on the _____ of a coordinate graph.

(A) x-axis
(B) y-axis
(C) origin
(D) none of the above

---

24. _____, _____, _____, _____, _____, _____, _____, _____

(A) 3, –4, 4 (B) –4, –5, –6 (C) 3, 4, 5 (D) none of these

---

25. $\frac{20}{21}$, $\frac{18}{19}$, $\frac{16}{17}$, $\frac{14}{15}$, $\frac{12}{13}$, _____, _____, _____

(A) $\frac{11}{12}, \frac{10}{11}, \frac{9}{10}$ (B) $\frac{10}{11}, \frac{8}{9}, \frac{6}{7}$ (C) $\frac{13}{14}, \frac{15}{16}, \frac{17}{18}$ (D) none of these

---

26. .2, .4, .6, .8, 1.0, _____, _____

(A) 2.0, 3.0 (B) 10, 20 (C) 1.3, 1.5 (D) none of these

---

27. What is the value of x when $x^2 = 100$?

(A) 0
(B) 1
(C) 10
(D) none of the above

28. The distance between (1,6) and (–1,6) on a coordinate graph is _____ units.

(A) 12
(B) 6
(C) 0
(D) none of the above

Name _____ Date _____

9. In 5^3, the 5 is the _____.

(A) exponent
(B) order
(C) base number
(D) none of the above

10. An exponent is the number of times the base number is _____.

(A) multiplied
(B) subtracted
(C) added
(D) none of the above

11. Powers of 10, exponents with 10 as the base number, show _____.

(A) place value
(B) squares
(C) roots
(D) none of the above

12. The exponent with a base number of 10 is the _____ in the place value.

(A) number of 0s
(B) number of 1s
(C) number of 5s
(D) all of the above

13. The identity factor for subtraction is 2.

(A) True
(B) False

14. $n \div 3 = n$ is an example of the associative property.

(A) True
(B) False

15. $(7+3)+4=7+(3+4)$ is an example of the associative property.

(A) True
(B) False

16. Properties of operations are laws that apply to them.

(A) True
(B) False

17. In a list of different operations, perform the same operation from right to left.

(A) True
(B) False

18. The associative property uses order and parentheses to define equal expressions.

(A) True
(B) False

19. $20 \div 10 = (10 \div 10)+(10 \div 10)$ is an example of the distributive property.

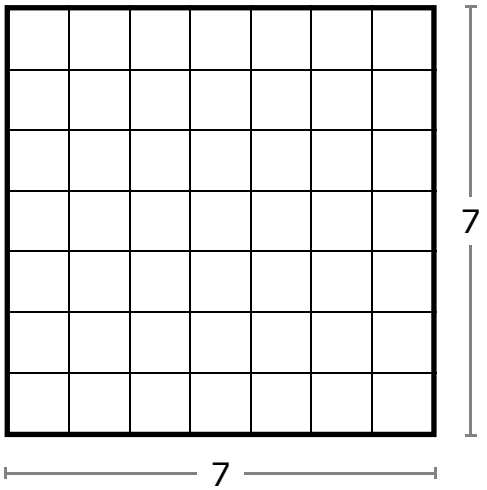
(A) True
(B) False

20. The identity factor for multiplication is 0.

(A) True
(B) False

Name _____ Date _____

Exponents

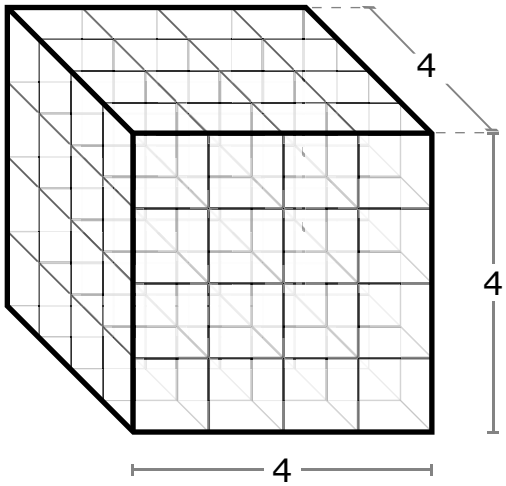


$7^2 = 7$ squared

7 is the base number.

2 is the exponent for the number of times the base number is multiplied.

$7 \times 7 =$ _____



$4^3 = 4$ cubed

_____ is the base number.

_____ is the exponent for the number of times the base number is multiplied.

$4 \times 4 \times 4 =$ _____

Name _____ Date _____

11. $9 + (3 \times 2) + (10 \div 5) =$ _____

(A) 15 (C) 17
(B) 16 (D) 18

---

12. In 5^4, the 4 is the _____.

(A) product (C) factor
(B) exponent (D) divisor

---

13. In 7^3, the 7 is the _____.

(A) product (C) difference
(B) sum (D) base number

---

14. $6^3 =$ _____

(A) 18 (C) 9
(B) 216 (D) 108

---

15. 4^2 is _____ 5^2.

(A) 9 less than (C) 2 less than
(B) 9 greater than (D) 2 greater than

---

16. $10^3 =$ _____

(A) 1,000 (C) 30
(B) 100 (D) 13

---

17. 3^4 is _____ 3×4.

(A) equal to (C) 69 less than
(B) 69 greater than (D) 24 greater than

---

18. $70{,}000 =$ _____

(A) 7×10^5 (C) 70×10
(B) 7×10^4 (D) 700×1

---

19. $10^2 \times 10^3 =$ _____

(A) 10^6 (C) 10^4
(B) 10^1 (D) 10^5

---

20. Exponents are used in writing _____.

(A) large numbers (C) both A and B
(B) scientific notation (D) none of the above

Name _____ Date _____

1. A cake recipe calls for 3 cups of flour and 2 cups of oil. Show the ratio of oil to flour. _____ : _____

   A. How many cups of oil are needed for 4 cakes? _____

   B. How many cakes can be made with 6 cups of flour? _____

---

2. A motorcycle travels 300 miles on 4 gallons of gasoline. A car travels 300 miles on 10 gallons of gasoline. Show both ratios.

   motorcycle = _____ : _____ car = _____ : _____

   A. How far does the motorcycle travel on 10 gallons of gasoline? _____

   B. How far does the car travel on 4 gallons of gasoline? _____

Name _____ Date _____

1. A ratio compares _____ quantities or amounts.

(A) 2
(B) 3
(C) 4
(D) none of the above

---

2. A ratio can be expressed as _____.

(A) 2:3
(B) 2 to 3
(C) $\frac{2}{3}$
(D) all of the above

---

3. A rate is a _____.

(A) race
(B) type of ratio
(C) rank
(D) none of the above

4.

Pencils	5	10	n
Pens	3	6	9

n =

(A) 11
(B) 12
(C) 13
(D) none of the above

5.

Weeks	1	2	3	n
Days	7		21	

n =

(A) 14
(B) 4
(C) 28
(D) none of the above

6.

Minutes			n	
Hours			3	

n =

(A) 60
(B) 120
(C) 180
(D) none of the above

7.

Quarters					n
Nickels					125

n =

(A) 24
(B) 25
(C) 26
(D) none of the above

8.

Bottles			3		n
Dollars			5		15

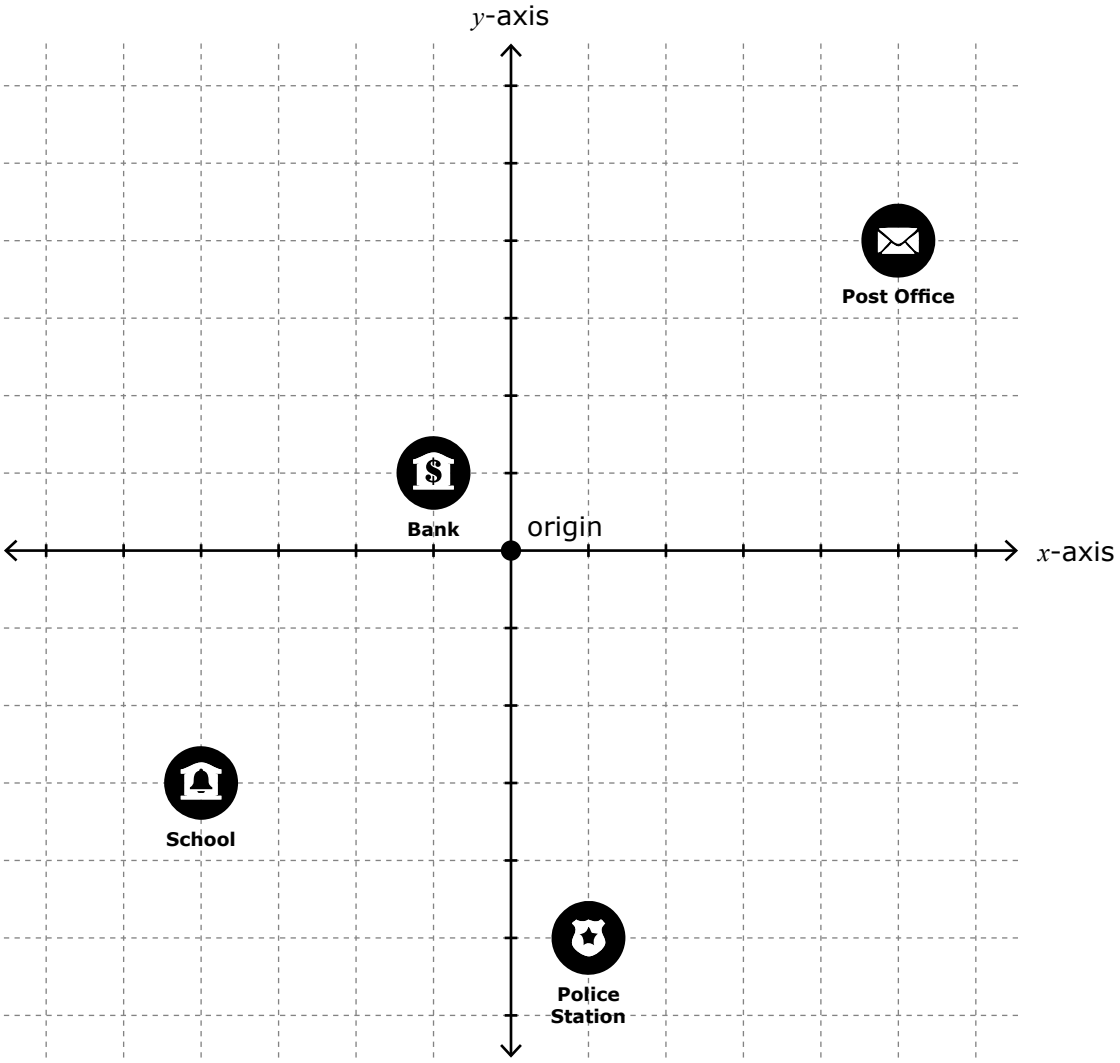
n =

(A) 10
(B) 5
(C) 4
(D) none of the above

Name _____ Date _____

City Map of Elizabeth

(Use with activity sheet 70)



1. Label each quadrant as a direction.
2. Label the x-axis as Main Street.
3. Label the y-axis as Central Avenue.
4. From the origin on the x-axis, the numbers to the right are east, The numbers to the left are west.
5. From the origin on the y-axis, the numbers at the top are north, the numbers at the bottom are south.
6. Each number is 1 block.

Name _____ Date _____

Write an example of how each expression might be used.

1. $\$5.75x$ _____

_____

2. $(640 - a)$ _____

_____

3. $1\frac{1}{2} + n$ _____

_____

4. $p \div \frac{1}{3}$ _____

_____

How are each pair of expressions different?

5. $84 - y$ and $y - 84$ _____

_____

_____

6. $t + t + t$ and $3t$ _____

_____

_____

Name _____ Date _____

Write an example of how each expression might be used.

1. $\$5.75x$ _____

_____

2. $(640 - a)$ _____

_____

3. $1\frac{1}{2} + n$ _____

_____

4. $p \div \frac{1}{3}$ _____

_____

How are each pair of expressions different?

5. $84 - y$ and $y - 84$ _____

_____

_____

6. $t + t + t$ and $3t$ _____

_____

_____

Name _____ Date _____

$4y+1$

When $y=1$, $4y+1=$ _____.

When $y=2$, $4y+1=$ _____.

When $y=3$, $4y+1=$ _____.

When $y=4$, $4y+1=$ _____.

$\frac{1}{2}c+5$

When $c=0$, $\frac{1}{2}c+5=$ _____.

When $c=2$, $\frac{1}{2}c+5=$ _____.

When $c=4$, $\frac{1}{2}c+5=$ _____.

When $c=6$, $\frac{1}{2}c+5=$ _____.

$7x-2$

For which value of x does $7x-2=12$?

(A) $x=0$
(B) $x=1$
(C) $x=2$

$30-3w$

For which value of w does $30-3w=15$?

(A) $w=0$
(B) $w=5$
(C) $w=10$

$.25p+1$

What value of x makes $.25p+1=2.25$?

(A) $p=3$
(B) $p=4$
(C) $p=5$

$2b-.5$

What value of b makes $2b-.5=11.5$?

(A) $b=2$
(B) $b=4$
(C) $b=6$

Name _____ Date _____

1.

$5 - $1.25 + $4 - $1.50 + $3 - _____ + _____

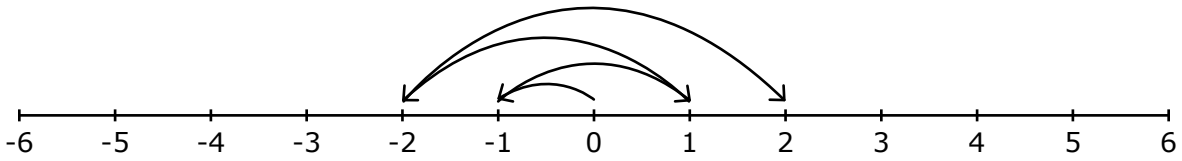
Describe the pattern using words.
I had $5. I spent $1.25. I earned $4. I bought some stamps for $1.50. I received $3 from my grandmother. I gave _____ to my brother for lunch money.

The pattern is _____

_____

_____

2.



Complete this pattern on the number line. Start at 0.
Describe the pattern on the number line. Use "right" and "left" in your description.

_____

_____

3.

$\frac{1}{5}$, 2, $\frac{2}{5}$, 4, $\frac{3}{5}$, _____, _____, _____, _____, _____

Describe the pattern.

_____

_____