4-in-a-Row

Materials:
4-in-a-row Gameboard
6-sided die
Dry erase boards/ markers/erasers

Set up:
Shuffle the game cards and place them face down in the spaces on the gameboard so that the big numbers on the back of the cards are showing.

To play:

This is a game for 2 players. If you have more than 2, you will need to start more games.

Player 1 rolls the die and picks a card that corresponds to the number rolled. For example, if Player 1 rolls a 6, they can pick any card on the board with a 6.

If the player answers the question correctly, they can mark the space on the gameboard with their initial. If the player misses, take that card of the board and replace it with one of the extra question cards.

If the player rolls a number that is not on the board then that roll is "wild" and the player can choose any card to answer.

To win:
First player to get 4-in-a-row in any direction wins.

Chutes & Ladders

Play by regular Chutes & Ladders rules, except instead of spinning to decide how many spaces you move, you answer a question and then move the number of spaces on the back.

Jenga

Materials:
Jenga blocks
Dry erase boards/ markers/erasers

Set up:
Shuffle the game cards and deal them out to the players
Build the Jenga tower.

To play:

Player 1 decides what color block they would like to pull and selects one of the cards they have been dealt that corresponds to that color. If the player answers the card correctly, they may pull a block and keep it. (They can only pull blocks that match the colors indicated on their cards.)

Continue taking turns answering questions and pulling blocks until the tower falls.

To win:
Person who makes the tower fall is the loser. Person with the most blocks when the tower falls is the winner (unless they are the one that made the tower fall.)

A PBGYR card allows the player to pull any color card.

Hint: It might go faster if the players go ahead and work all their problems as soon as they are dealt. That way they can just pull a card and check their answer before pulling a block.

4.2.A - 4.2.B - Expanded form and 10 X Relationships
Practice: Multigame

1. C	**2.** B	**3.** A	**4.** B	**5.** B	**6.** D
7. B	**8.** C	**9.** C	**10.** D	**11.** D	**12.** D
13. A	**14.** C	**15.** D	**16.** D	**17.** A	**18.** B
19. B	**20.** B	**21.** C	**22.** C	**23.** D	**24.** A
25. B	**26.** A	**27.** C	**28.** B	**29.** B	**30.** A

1. The number of movie tickets sold at a theater last year can be written in expanded notation, as shown.

(8 x 100,000) + (6 x 1,000)

What is this number written in standard form?

A. 860,000

B. 86,000

C. 806,000

D. 8,006,000

2. In 2008 the total number of cell phone users in Indonesia was about 140,578,000. Which expression has the same value as 140,578,000.

A. 100,000,000 + 40,000,000 + 5,000,000 + 700,000 + 80,000

B. 100,000,000 + 40,000,000 + 500,000 + 70,000 + 8,000

C. 10,000,000 + 4,000,000 + 500,000 + 70,000 + 8,000

D. 100,000,000 + 40,000,000 + 500 + 70 + 8

3. People in the United States drink about 129,600,000 bottles of water each day. What is the value of the digit 1 in this number?

A. 100,000,000

B. 100

C. 1,000

D. 100,000

4. A stadium sold 33,300 tickets to a concert. Which statement about this number is true?

A. The value of the digit in the tens place is 10 times the value of the digit in the hundreds place.

B. The value of the digit in the thousands place is $\frac{1}{10}$ the value of the digit in the ten thousands place.

C. The value of the digit in the hundreds place is 10 times the value of the digit in the thousands place.

D. The value of the digit in the ten thousands place is $\frac{1}{10}$ the value of the digit in the hundreds place.

5. In the number shown, one digit is underlined, and one digit is circled.

7̲7̃,000

Which statement about the circled digit is true?

A. Its value is 10 times greater than the value of the underlined digit.

B. Its value is $\frac{1}{10}$ the value of the underlined digit.

C. Its value is 70 times the value of the underlined digit.

D. Its value is $\frac{1}{70}$ the value of the underlined digit.

6. The counter shows the number of times a website has been visited.

000	724	356

What is the value of the digit 4 in this number?

A. 400
B. 40
C. 4
D. Not Here

1
Purple

2
Blue

3
Green

4
Red

5
Yellow

6
PBGYR

7. The number of stars in the Phargon Galaxy can be written in expanded notation, as shown.

$$(5 \times 100,000) + (7 \times 100)$$

What is this number written in standard form?

A. 507,000

B. 500,700

C. 570,000

D. 500,007

8. The total number of coins in the treasury of the Queen of Hasmuchia is 170,506,000. Which expression has the same value as 170,506,000?

A. 100,000,000 + 70,000,000 + 500,000 + 60,000

B. 100,000,000 + 70,000,000 + 50,000 + 6,000

C. 100,000,000 + 70,000,000 + 500,000 + 6,000

D. 100,000,000 + 70,000,000 + 500,000 + 600

9. Particular Patrick does not like germs at all! According to his estimates, he kills 494,300,000 germs a day with his disinfectant spray. What is the value of the digit 3 in this number?

A. 3,000

B. 30,000

C. 300,000

D. 3,000,000

10. Carlotta the Cavity Queen has eaten 88,808 lemon drops in her lifetime. Which statement about this number is true?

A. The value of the digit in the tens place is 10 times the value of the digit in the hundreds place.

B. The value of the digit in the hundreds place is 10 times the value of the digit in the thousands place.

C. The value of the digit in the ten thousands place is $\frac{1}{10}$ the value of the digit in the hundreds place.

D. The value of the digit in the thousands place is $\frac{1}{10}$ the value of the digit in the ten thousands place.

11. In the number shown one digit is underlined, and one digit is circled.
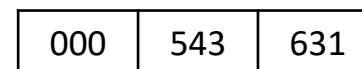
$$\underline{7}0\,\textcircled{7}00$$

Which statement about the circled digit is true?

A. Its value is 10 times greater than the value of the underlined digit.

B. Its value is $\frac{1}{10}$ the value of the underlined digit.

C. Its value is 100 times the value of the underlined digit.

D. Its value is $\frac{1}{100}$ the value of the underlined digit.

12. The counter shows the number of times a website has been visited.

000	543	631

What is the value of the digit 4 in this number?

A. 400

B. 40

C. 4

D. Not Here

1
Purple

2
Blue

3
Green

4
Red

5
Yellow

6
PBGYR

13. The number of movie tickets sold at a theater last year can be written in expanded notation, as shown.

$$(7 \times 100{,}000) + (5 \times 1{,}000)$$

What is this number written in standard form?

A. 705,000

B. 750,000

C. 700,500

D. 700,050

14. In 2022 the total number of mosquito bites inflicted on campers at Happy Swamp Summer Camp was estimated to be 303,752,000. Which expression has the same value as 303,752,000.

A. 30,000,000 + 3,000,000 + 700,000 + 50,000 + 2,000

B. 300,000,000 + 3,000,000 + 700,000 + 50,000 + 200

C. 300,000,000 + 3,000,000 + 700,000 + 50,000 + 2,000

D. 300,000,000 + 3,000,000 + 70,000 + 5,000 + 200

15. Despite the mosquitos, Happy Swamp Summer Camp is a popular summer destination. So far, they have served 734,200,910 campers. What is the value of the digit 2 in this number?

A. 200

B. 2,000

C. 20,000

D. 200,000

16. Happy Swamp Summer Camp served up 11,001 bowls of their famous camp oatmeal last July. Which statement about this number is true?

A. The value of the digit in the thousands place is 100 times the value of the digit in the ones place.

B. The value of the digit in the thousands place is 10 times the value of the digit in the ten thousands place.

C. The value of the digit in the ones place is $\frac{1}{100}$ the value of the digit in the thousands place.

D. The value of the digit in the thousands place is $\frac{1}{10}$ the value of the digit in the ten thousands place.

17. In the number shown, one digit is underlined, and one digit is circled.

$$9,\underline{9}090$$
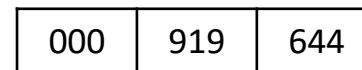
Which statement about the circled digit is true?

A. Its value is 10 times greater than the value of the underlined digit.

B. Its value is $\frac{1}{10}$ the value of the underlined digit.

C. Its value is 90 times the value of the underlined digit.

D. Its value is $\frac{1}{90}$ the value of the underlined digit.

18. The counter shows the number of times a website has been visited.

000	919	644

What is the value of the digit 1 in this number?

A. 1,000

B. 10,000

C. 100,000

D. Not Here

1
Purple

2
Blue

3
Green

4
Red

5
Yellow

6
PBGYR

19. The number of people who watched Muscular Marvin's on-line exercise videos last month can be written in expanded notation as shown.

(5 x 100,000) + (6 x 10,000)

What is this number written in standard form?

A. 56,000

B. 560,000

C. 5,600,000

D. 506,000

20. Muscular Marvin loves to run. He estimates that last year he ran 458,040,000 steps. Which expression has the same value as 458,040,000

A. 40,000,000 + 5,000,000 + 800,000 + 4,000

B. 400,000,000 + 50,000,000 + 8,000,000 + 40,000

C. 400,000,000 + 50,000,000 + 8,000,000 + 400,000

D. 400,000,000 + 50,000,000 + 8,000,000 + 4,000

21. So far, Muscular Marvin has made $778,716,443 selling his specially designed exercise equipment.

 What is the value of the digit 8 in this number?

A. 80,000

B. 800,000

C. 8,000,000

D. 80,000,000

22. Muscular Marvin has done 55,500 sit ups this year. Which statement about this number is true?

A. The value of the digit in the hundreds place is 10 times the value of the digit in the thousands place.

B. The value of the digit in the thousands place is $\frac{1}{10}$ the value of the digit in the hundreds place

C. The value of the digit in the thousands place is 10 times the value of the digit in the hundreds place.

D. The value of the digit in the hundreds place is $\frac{1}{10}$ the value of the digit in the ten thousands place.

23. In the number shown, one digit is underlined, and one digit is circled.

3̲3̲,000

Which statement about the circled digit is true?

A. Its value is $\frac{1}{10}$ the value of the underlined digit.

B. Its value is 30 times the value of the underlined digit.

C. Its value is $\frac{1}{30}$ the value of the underlined digit.

D. Its value is 10 times greater than the value of the underlined digit.

24. The counter shows the number of times a website has been visited.

000	878	397

What is the value of the digit 3 in this number?

A. 300

B. 3,000

C. 30,000

D. Not Here

1
Purple

2
Blue

3
Green

4
Red

5
Yellow

6
PBGYR

25. The number of jewels that Peg-Leg Pete has captured in his career as a pirate can be written in expanded notation as shown.

$$(4 \times 100{,}000) + (9 \times 1{,}000)$$

What is this number written in standard form?

A. 490,000

B. 409,000

C. 49,000

D. 400,900

26. To supplement his work as a pirate, Peg-Leg Pete makes extra money by selling eye patches to his fellow pirates and other customers who love pirate fashion. So far, he has sold 610,220,200 eye patches. Which expression has the same value as 610,220,200?

A. 600,000,000 + 10,000,000 + 200,000 + 20,000 + 200

B. 60,000,000 + 1,000,000 + 20,000 + 2,000 + 20

C. 600,000,000 + 1,000,000 + 200,000 + 2,000 + 200

D. 600,000,000 + 10,000,000 + 200,000 + 20,000 + 2

27. It seems like being a pirate would be exciting, but in between capturing ships, it can be boring. Peg-leg Pete's pirate crew usually plays video games to pass the time. They estimate they spent 622,677,372 minutes playing video games last year. What is the value of the digit 3 in this number?

A. 30,000

B. 3,000

C. 300

D. 3

28. Peg-Leg Pete and his pirates captured 77,700 pieces of silver from just one ship last week. Which statement about this number is true?

A. The value of the digit in the hundreds place is 10 times the value of the digit in the thousands place.

B. The value of the digit in the hundreds place is $\frac{1}{10}$ the value of the digit in the thousands place.

C. The value of the digit in the hundreds place is $\frac{1}{10}$ the value of the digit in the ten thousands place.

D. The value of the digit in the thousands place is 100 times the value of the digit in the hundreds place.

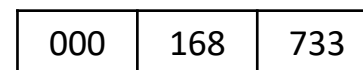29. In the number shown, one digit is underlined, and one digit is circled.

$$2\underline{2}{,}000$$

Which statement about the circled digit is true?

A. Its value is 10 times greater than the value of the underlined digit.

B. Its value is $\frac{1}{10}$ the value of the underlined digit.

C. Its value is 20 times the value of the underlined digit.

D. Its value is $\frac{1}{200}$ the value of the underlined digit.

30. The counter shows the number of times a website has been visited.

000	168	733

What is the value of the digit 6 in this number?

A. 60,000

B. 6,000

C. 600

D. Not Here

1
Purple

2
Blue

3
Green

4
Red

5
Yellow

6
PBGYR