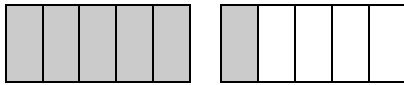


1. What is the expanded form of 653,401
- A. $600,000+50,000+400+1$
 B. $600,000+50,000+3000+400+1$
 C. $600,000+50,000+300+41$
 D. $600,000+3000+400+1$
2. What is the equivalent way of writing $4 \times 4 \times 4$?
- A. 3^4 C. 4^3
 B. 12 D. 4^4
3. Which set of numbers is in order from least to greatest?
- A. 7.0, 7.09, 7.52, 7.9 C. 8.0, 4.8, 4.34, 2.0
 B. 10.0, 9.0, 9.10, 9.2 D. .18, .17, .16, .01

4. Which decimal is equivalent to this model representing $1 \frac{1}{5}$?



- A. 1.02 C. 1.002
 B. 1.2 D. .12
5. Rachel and her 2 brothers made 2 dozen cookies. They gave 1 dozen to their friends and divided the remainder for themselves. Which number sentence can you use to find out how many cookies Rachel and her 2 brothers received?

- A. $(24 + 12) \div 4 =$ C. $(24 \div 3) - 12 =$
 B. $(24 - 12) \div 3 =$ D. $(24 \times 3) - 12 =$

6. Solve: $45 - 2/5 =$

- A. $2/55$ C. $2/10$
 B. $2/5$ D. 20

7. What is $8/32$ in simplest form?

- A. $1/4$ C. $4/8$
 B. $2/16$ D. $1/2$

8. Solve: $\begin{array}{r} 308 \\ \times 67 \\ \hline \end{array}$

- A. 20,636 C. 20,436
 B. 20,536 D. 2,636

9. Multiply and simplify your answer.

$$\frac{1}{2} \times \frac{6}{8} =$$

- A. $3/8$ C. $3/16$
 B. $3/4$ D. $6/8$

10. What integer could represent 15 feet underground?

- A. 26 C. -26
 B. 15 D. -15

11. What is the value of a in the following equation?

$$3a = 21$$

- A. 5 C. 7
 B. 6 D. 8

6th Grade Pre- Assessment

12. These are the heights for the high jump at the track meet. What number would appear next if the pattern continues?

Place	Height in feet
1 st	6.8
2 nd	6.4
3 th	6.0
4 th	

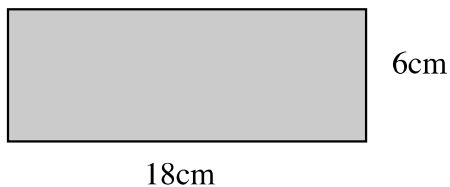
- A. 6.2 C. 5.4
 B. 5.6 D. 5.2

13. What is the rule for completing this table?

P	?
2	7
3	8
4	9

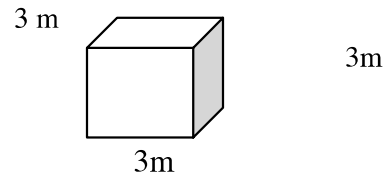
- A. $p \cdot 2$ C. $p + 5$
 B. $p - 5$ D. $p \div 2$

14. What is the **area** of this rectangle?



- A. 24 cm^2 C. 64 cm^2
 B. 48 cm^2 D. 108 cm^2

15. What is the **volume** of the cube?



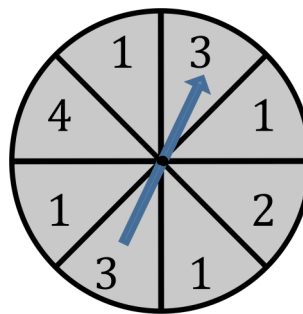
- A. 9m^3 C. 3m^3
 B. 27m^3 D. 6m^3

16. What is the **mean** of the scores achieved on the following spelling tests?

(85%, 75%, 95%, 100%, 80%)

- A. 80% C. 87%
 B. 85% D. 90%

17. What is the probability that this spinner will land on 3?



- A. 2:8 C. 1:8
 B. 2:2 D. 3:4

6th Grade Pre- Assessment

18. What is the number 238,061 written in expanded form using exponents?

- A. $2 \times 10^6 + 3 \times 10^5 + 8 \times 10^4 + 6 \times 10^3 + 1 \times 10^2$
- B. $2 \times 10^6 + 3 \times 10^5 + 8 \times 10^4 + 6 \times 10^2 + 1 \times 10^1$
- C. $2 \times 10^5 + 3 \times 10^4 + 8 \times 10^3 + 6 \times 10^2 + 1 \times 10^1$
- D. $2 \times 10^5 + 3 \times 10^4 + 8 \times 10^3 + 6 \times 10^1 + 1 \times 10^0$

19. Which letter shows these numbers ordered correctly from *least* to *greatest*.

0, -5, $5\frac{1}{2}$, 5.8, -5.5

- A. 0, -5, -5.5, $5\frac{1}{2}$, 5.8
- B. -5, -5.5, 0, $5\frac{1}{2}$, 5.8
- C. -5.5, -5, 0, 5.8, $5\frac{1}{2}$
- D. -5.5, -5, 0, $5\frac{1}{2}$, 5.8

20. A number and its additive inverse add up to 0. What is the additive inverse of 5?

- A. 0
- B. 5
- C. -5
- D. 1

21. What is the prime factorization for 18?

- A. $3 \cdot 6$
- B. $2 \cdot 9$
- C. $2 \cdot 3 \cdot 3$
- D. $2 \cdot 2 \cdot 3$

22. Alexis placed 4 green marbles, 3 red marbles, and 5 blue marbles into a bag. What is the ratio of red marbles to non-red marbles?

- A. 3:4
- B. 3:12
- C. 4:8
- D. 3:9

23. Which of these division expressions is the best choice for estimating an answer to the following?

$$410,623 \div 234$$

- A. $410,600 \div 230$
- B. $400,600 \div 20$
- C. $400,000 \div 200$
- D. $400 \div 20$

24. Solve.

$$\frac{2}{3} + \frac{1}{5}$$

- A. $\frac{3}{8}$
- B. $\frac{12}{15}$
- C. $\frac{3}{5}$
- D. $\frac{13}{15}$

25. Solve: $8 - (-3) =$

- A. 5
- B. 11
- C. -5
- D. -11

26. Which equation represents the information shown in this table of values?

x	y
-1	2
0	3
1	4
5	8

- A. $y = x - 3$
- B. $y = 2x + 1$
- C. $y = x + 2$
- D. $y = x + 3$

27. ($t \div$
28.

6th Grade Pre- Assessment

Question	Answer	Core Correlation
1	B	5 th : 1.1
2	C	5 th : 1.1
3	A	5 th : 1.2
4	B	5 th : 1.2
5	B	5 th : 1.3
6	B	5 th : 1.3
7	A	5 th : 1.4
8	A	5 th : 1.5
9	A	5 th : 1.5
10	D	5 th : 1.6
11	C	5 th : 2.2
12	B	5 th : 2.1
13	C	5 th : 2.1
14	D	5 th : 4.1
15	B	5 th : 4.2
16	C	5 th : 5.1
17	A	5 th : 5.2
18	D	6 th : 1.1.c
19	D	6 th : 1.2.b
20	C	6 th : 1.2.e
21	C	6 th : 1.3.b
22	D	6 th : 5.2.a
23	C	6 th : 1.5.c
24	D	6 th : 1.6.b
25	B	6 th : 1.6.c
26	D	6 th : 2.1.b
27	C	6 th : 2.2.a
28	A	6 th : 3.1.c
29	A	6 th : 3.2.c
30	C	6 th : 4.2.b
31	C	6 th : 4.1.c
32	D	6 th : 4.2.e
33	D	6 th : 2.1.c
34	C	6 th : 1.6.a

*** Note: Items 1 – 17 are concepts that were learned in 5th grade. This gives students an opportunity to demonstrate retention. Items 18 – 34 are concepts that are extended from fifth grade and/or are new concepts to be learned in sixth grade. This should provide a glimpse into the foundational understanding students have prior to studying sixth grade mathematics.