

Unit 1 Study Guide

1. $24 \times (709 + 54) =$

2. $6 \times 9 + 8 \div 2 =$

_____ 3. Which phrase means 8 less than $(75 \div 5)$?

- A. divide 75 by 5, then subtract 8
- B. divide 75 by 5, then add 8
- C. add 75 and 5, then subtract 8
- D. subtract 5 from 75, then subtract 8

_____ 4. Which expression means 12 times as large as the sum of 593 and 88?

- A. $12 + (593 + 88)$
- B. $12 - (593 + 88)$
- C. $12 \times (593 + 88)$
- D. $12 \times (593 - 88)$

6. $(15 \div 5) - 2 =$

5. $(3 + 6) \div 3 + 4 =$

8. $[2 + (9 - 5)] \times 3 =$

7. $(4 \times 4) + 8 - 9 =$

10. 489×10^4

9. 75×10^3

12. Write 10,000 as a power of ten.

11. 200×10^2

13. Which **TWO** expressions have a value greater than 10?

- A. $6 \div 3 \times (5 + 2)$
- B. $(4 \div 2 + 8) - 9 + 1$
- C. $(7 + 2) - (9 \div 3) + 5$
- D. $(7 - 3) \div 2 + 9 \div 9$

15. Add parentheses to make the statements true:

- a) $4 + 22 - 7 \times 2 = 34$

- b) $9 + 5 - 2 + 11 = 23$

17. Complete the statements about the following expression: **3,411 - 234**
3

- a) The given expression is equal to $(3,411 - 234) \div$ _____.
- b) The given expression is _____ the value of $(3,411 - 234)$.

14. **A: 8,253 B: 5,434**

- a) How does the 3 in **A** compare to the 3 in **B**?

- b) How does the 8 in **B** compare to the 5 in **A**?

16. Write a numerical expression for the phrase:

- a) Add six and four, then multiply by 3

- b) The sum of 4 and 5, divided by 3

18. Which numbers have a 3 that is $\frac{1}{10}$ of the value of the 3 in 5,384?

- A. 57,396 C. 102,938
- B. 736 D. 3,974

19. Choose the **TWO** correct statements about place value.

In 77,777, the value of the 7 in the ones place is equal to 100 times the value of the 7 in the hundreds place.

In 444,444, the value of the 4 in the hundred thousands place divided by the value of the 4 in the ten thousands place is equal to 10.

In 333,333, the value of the 3 in the hundred thousands place is equal to 100 times the value of the 3 in the thousands place.

In 2,222, the value of the 2 in the tens place is equal to 100 times the value of the 2 in the ones place.

20. Write the product using an exponent for: $10 \times 10 \times 10 \times 10 =$ _____