

TEST NAME: **Expressions/Equations (EE.1-EE.2)**
TEST ID: **181098**
GRADE: **06**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. Tessa's bedroom is a perfect square. One side measures 16 feet. Which equation could Tessa use to find the size of her bedroom?

- A. $16^2 = 32$ square feet
- B. $16^4 = 72$ square feet
- C. $16^2 = 256$ square feet
- D. $16^4 = 65,536$ square feet

2. What is the value of $2^5 \times 2^3$?

- A. 2^8
- B. 2^{15}
- C. 4^8
- D. 4^{15}

3. Which is the value of $(2 + 3)^2 + 6(4 + 5)$?

- A. 59
- B. 64
- C. 79
- D. 90

4. What is the value of the expression below?

$$4^2 - 12 \div 3 + 7 - 5$$

- A. 2
- B. 3
- C. 6
- D. 14

5. Which expression is equivalent to $\left(\frac{2}{3}\right)^4$?

A. $\frac{2 \times 4}{3}$

B. $\frac{2}{3} \times 4$

C. $\frac{2}{3} \times \frac{4}{4}$

D. $\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$

6. What is the value of $2 \cdot 4^2 - 3$?

A. 13

B. 26

C. 29

D. 61

7. What is the value of $2x - 5 + 3y$, when $x = 8$ and $y = 2$?

A. 12

B. 17

C. 28

D. 55

8. What is $\frac{2x}{4} + 1$, when $x = 7$?

A. 7.75

B. 4.5

C. 4.25

D. 2.5

9. How many factors are in the expression $2x(y + 5)$?
- A. 1
 - B. 2
 - C. 3
 - D. 4
10. What word describes the 2 in the expression $2x + m$?
- A. coefficient
 - B. sum
 - C. variable
 - D. term
11. Which expression represents 4 less than twice a number, n ?
- A. $4 - 2n$
 - B. $2n - 4$
 - C. $4 - n^2$
 - D. $n^2 - 4$
12. Which expression represents "5 more than 9 times x "?
- A. $5(x + 9)$
 - B. $9(x + 5)$
 - C. $5x + 9$
 - D. $9x + 5$