Name: _____
Date: _____

Class: _____
Substitution HW

1. If $m = 2$, what is the value of $6 \div m \cdot 3$?

2. If $a = 4$, what is the value of $8 - a + 2$?

3. If $x = 5$, what is the value of $5x - 10$?

4. If $n = 8$, what is the value of $\frac{n}{2} + 7$?

5. If $k = 2$, what is the value of $63 \div 9 - k + 2$?

6. If $t = 10$, what is the value of $t - 3 \cdot 2 + 11$?

7. What is the value of the expression

$81 \div p + q$ when $p = 9$ and $q = 18$

Answer: _____

Over there are more questions on the back

8. A locksmith uses the expression $55t + 4m to determine the cost of repairs, where t is the time in hours and m is the number of miles to drive to get to the job site. What is the cost of job that is 22 miles from the locksmith's base that lasts 4 hour?

Answer: _____

9. A basketball coach uses the expression 2b + l to determine the number of points earned by his players during a practice drill, where b is the number of baskets made outside the free throw lane and l is the number of baskets made inside the free throw lane. How many points did Emily earn is she made 8 baskets out of the free throw lane and 12 baskets inside the free throw lane?

Answer: _____

Look at this expression.

$$4n + 3 \cdot (4 - 1)$$

If n = 2, what is the value of this expression?

SHOW YOUR WORK

Over there are more questions on the back

Name: Key

Date: _____

Class: _____

Substitution HW

1. If m = 2, what is the value of 6 ÷ m • 3?

$6 \div 2 \cdot 3$

$3 \cdot 3$

9

2. If a = 4, what is the value of 8 – a + 2?

$8 - 4 + 2$

$4 + 2$

6

3. If x = 5, what is the value of 5x – 10?

$5(5) - 10$

$25 - 10$

15

4. If n = 8, what is the value of $\frac{n}{2} + 7$?

$\frac{8}{2} + 7$

$4 + 7$

11

5. If k = 2, what is the value of 63 ÷ 9 – k + 2?

$63 \div 9 - 2 + 2$

$7 - 2 + 2$

$5 + 2$

7

6. If t = 10, what is the value of t – 3 • 2 + 11?

$10 - 3 \cdot 2 + 11$

$10 - 6 + 11$

$4 + 11$

15

7. What is the value of the expression

81 ÷ p + q when p = 9 and q = 18

$81 \div 9 + 18$

$9 + 18$

27

Answer: 27

Over there are more questions on the back

8. A locksmith uses the expression $55t + 4m to determine the cost of repairs, where t is the time in hours and m is the number of miles to drive to get to the job site. What is the cost of job that is 22 miles from the locksmith's base that lasts 4 hour?

$55t + 4m \quad t = 4 \quad m = 22$

$55(4) + 4(22)$

$220 + 88$

308

Answer: $308

9. A basketball coach uses the expression 2b + l to determine the number of points earned by his players during a practice drill, where b is the number of baskets made outside the free throw lane and l is the number of baskets made inside the free throw lane. How many points did Emily earn is she made 8 baskets out of the free throw lane and 12 baskets inside the free throw lane?

$2b + l \quad b = 8 \quad l = 12$

$2(8) + 12$

$16 + 12$

28

Answer: 28 points

Look at this expression.

$4n + 3 \cdot (4 - 1)$

$4(2) + 3 \cdot (4 - 1)$

If n = 2, what is the value of this expression?

SHOW YOUR WORK

$4 \cdot 2 + 3 \cdot 3$

$8 + 9$

17

Over there are more questions on the back