Unit 3 Interim Assessment

Name:

Class Period: 1234 Date: $\qquad$

1) Jennifer is 14 years younger than Chris. This can be represented by the equation $\mathrm{J}=\mathrm{C}-14$. If Chris is 54 years old, how old is Jennifer?
2) Sarah printed a 250 page report at a copy store that charged $12 \not \subset$ per page to copy. She calculated the cost (c) to print by using the equation $c=\$ 0.12 p$, where
p represents the number of pages printed. What was Sarah's printing cost?

Answer: $\qquad$
4) The equation $A=6 s^{2}$ can be used to calculate, the surface area of a cube with edge length. Using this equation, what is the surface area of a cube with an edge length of 15 inches?
$\qquad$
5) What is the value of $2 a+3 b-4 c$ when $a=9, b=3$, and $c=2$ ?
6) Which expression represents 2 times the difference of $d$ and 16 ?
A) $2 d-16$
B) $16-2 d$
C) $2(d-16)$
D) $2(16-d)$

Answer: $\qquad$
7) Mr. Goletz started the school year with 24 students in his class. If $x$ students moved out of his class, which expression represents the number of students left in the class?
A) $x+24$
B) $x-24$
C) $24-x$
D) $24 \div x$

## Answer:

$\qquad$
9) Translate this phrase to an algebraic expression: 9 less than the product of 15 and a number ( n ).
8) Which expression represents the sum of 3 times $x$ and 7 ?
A) $3+7 x$
B) $3(x+7)$
C) $3 x+7$
D) $3 x+7 x$

Answer: $\qquad$
10) Which expression represents the quotient of the sum of a number (n) and 8 , divided by 3 ?
A) $\frac{n}{3}+8$
B) $\frac{n}{8}+3$
C) $\frac{n+8}{3}$
D) $\frac{n-8}{3}$
$\qquad$

Math 6 - Unit 3: Expressions
Unit 3 Interim Assessment
ANSWER KEY

1) Jennifer is 14 years younger than Chris. This can be represented by the equation $J=C-14$. If Chris is 54 years old, how old is Jennifer?

Answer: Jennifer is 40 years old.
3) If $m=4$, what is the value of $4(2 m+1)^{2}$ ?
2) Sarah printed a 250 page report at a copy store that charged $12 \not \subset$ per page to copy. She calculated the cost (c) to print by using the equation $c=\$ 0.12 p$, where p represents the number of pages printed. What was Sarah's printing cost?

Answer: It will cost \$30.
4) The equation $A=6 s^{2}$ can be used to calculate, the surface area of a cube with edge length. Using this equation, what is the surface area of a cube with an edge length of 15 inches?
5) What is the value of $2 a+3 b-4 c$ when $a=9, b=3$, and $c=2$ ?
6) Which expression represents 2 times the difference of $d$ and 16 ?
A) $2 d-16$
B) $16-2 d$
C) $2(d-16)$
D) $2(16-d)$
8) Which expression represents the sum of 3 times $x$ and 7 ?
A) $3+7 x$
B) $3(x+7)$
C) $3 x+7$
D) $3 x+7 x$
B) $x-24$
C) $24-x$
D) $24 \div x$

Answer: C
9) Translate this phrase to an algebraic expression: 9 less than the product of 15 and a number ( n ).
10) Which expression represents the quotient of the sum of a number (n) and 8 , divided by 3 ?
A) $\frac{n}{3}+8$
B) $\frac{n}{8}+3$
C) $\frac{n+8}{3}$
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