Math 6 - Unit 3: Expressions

Unit 3 Interim Assessment

Name: _____

Class Period: 1 2 3 4 Date: _____

- 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?
- 2) Sarah printed a 250 page report at a copy store that charged 12¢ per page to copy. She calculated the cost (c) to print by using the equation c = \$0.12p, where p represents the number of pages printed. What was Sarah's printing cost?

Answer: _____

Answer:

- 3) If m = 4, what is the value of $4(2m + 1)^2$?
- **4)** The equation A = 6s² 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?

Answer: _

Answer: _____

5) What is the value of 2a+3b-4c when a=9, b=3, and c=2?	6) Which expression represents 2 times the difference of d and 16?
	A) 2d - 16 B) 16 - 2d C) 2(d - 16) D) 2(16 - d)
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Answer:	Answer:
 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 ÷ x 	 8) Which expression represents the sum of 3 times x and 7? A) 3 + 7x B) 3(x + 7) C) 3x + 7 D) 3x + 7x
Answer:	Answer:
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) ⁿ/₃ + 8 B) ⁿ/₈ + 3 C) ⁿ⁺⁸/₃ D) ⁿ⁻⁸/₃
Answer:	Answer:

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Name:

Unit 3 Interim Assessment **ANSWER KEY**

Class Period: 1 2 3 4 Date: _____

- 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?
- 2) Sarah printed a 250 page report at a copy store that charged 12¢ per page to copy. She calculated the cost (c) to print by using the equation c = \$0.12p, where p represents the number of pages printed. What was Sarah's printing cost?

Answer: Jennifer is 40 years old.

Answer: It will cost \$30.

- 3) If m = 4, what is the value of $4(2m + 1)^2$?
- 4) The equation A = 6s² 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?

Answer: 324

Answer: 1,350 in²

5) What is the value of 2a+3b-4c when a=9, b=3, and c=2?	 6) Which expression represents 2 times the difference of d and 16? A) 2d – 16 B) 16 – 2d C) 2(d – 16) D) 2(16 – d)
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Answer: 15n - 9	Answer: C