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Algebra EOC Practice Test #1

Multiple Choice
Identify the choice that best completes the statement or answers the question.

- _____ 1. George is helping the manager of the local produce market expand her business by distributing flyers around the neighborhood. He gets paid \$20 a day as well as \$0.05 for every flyer he distributes. George would like to earn at least \$65 each day. Which of the following represents this situation, where x is the number of flyers distributed.
- a. $20 + 0.05x \leq 65$

b. $20 + 5x \leq 65$

c. $20 + 0.05x \geq 65$

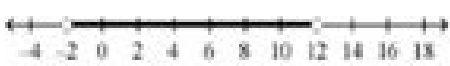
d. $20 + 5x \geq 65$
- _____ 2. Divide $(16x^6 - 12x^4 + 4x^2)$ by $4x^2$.
- a. $4x^3 - 3x^2 + 1$

b. $4x^4 - 3x^2$

c. $4x^4 - 3x^2 + 1$

d. $12x^4 - 3x^2 + 0$
- _____ 3. Which graph represents the solutions of $p + 1 < -1$ OR $p - 5 > 7$?
- a. 

b. 

c. 

d. 
- _____ 4. John is considering accepting one of two sales positions. ABC Company offers a yearly salary of \$45,000. XYZ Company offers a yearly salary of \$38,000 plus a 2% annual commission on sales. For what amount of sales x is the salary at XYZ Company greater than the salary at ABC Company?
- a. $x > 7000$

b. $x > 35,000$

c. $x > 70,000$

d. $x > 350,000$
- _____ 5. Solve $\frac{4}{x} = \frac{-2}{9}$
- a. -4.5

b. -18

c. 18

d. 4.5
- _____ 6. The average of Paula's two test scores must be 80 or more for her to get at least a B in the class. She got a 72 on her first test. What grades can she get on the second test to make at least a B in the class?
- a. at least 76

b. at least 84

c. at least 88

d. at least 92

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8.EE.A.1 Simplify Expressions Involving Multiplication of Exponents

8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

1. The expression $2^5 \cdot 4^2$ is equivalent to

1) 2^7

2) 2^{12}

3) 8^7

4) 8^8

2. Which expression is equivalent to $3^3 \cdot 3^9$?

1) 9^{12}

2) 9^7

3) 3^{12}

4) 3^7

3. The expression $3^2 \cdot 3^3 \cdot 3^4$ is equivalent to

1) 27^7

2) 27^{11}

3) 3^7

4) 3^{24}

4. The product of $3x^3$ and $2x^4$ is

1) $5x^9$

2) $5x^{20}$

3) $6x^4$

4) $6x^{20}$

5. The product of $2x^3$ and $6x^7$ is

1) $10x^4$

2) $12x^8$

3) $10x^{15}$

4) $12x^{15}$

6. Which expression represents $(3x^2y^4)(4xy^2)$ in simplest form?

1) $12x^3y^6$

2) $12x^2y^6$

3) $12x^4y^6$

4) $12x^6y^6$

7. The product of $4x^2y$ and $2xy^3$ is

1) $8x^3y^4$

2) $8x^3y^3$

3) $8x^4y^4$

4) $8x^2y^4$

8. The product of $6x^3y^3$ and $2x^2y$ is

1) $3xy^2$

2) $8x^3y^4$

3) $12x^5y^4$

4) $12x^6y^3$

9. The expression $(x^2z^3)(xy^2z)$ is equivalent to

1) $x^2y^2z^4$

2) $x^3y^2z^4$

3) $x^3y^3z^4$

4) $x^4y^2z^2$

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Algebra Diagnostic Pre-Test
50 questions – 60 minutes
Multiple Choice
Use the answer "NOTA" (which stands for None Of The Above) if the answer is not listed

1. Evaluate $7m + 3mn$ when $m = 8$ and $n = 14$
- A) 84

B) 196

C) 392

D) 168

E) NOTA
2. Simplify: $675 \div (6 \div 9 \div 3)$
- A) 15

B) 9

C) 75

D) 225

E) 135
3. $(4x^3y)^2 =$
- A) $8x^6y^2$

B) $16x^6y^2$

C) $4x^6y^2$

D) $16x^3y^2$

E) NOTA
4. $(3x - 2)(4x + 1) =$
- A) $12x^2 - 8x - 2$

B) $12x^2 + 5x - 2$

C) $x^2 - 5x - 2$

D) $12x^2 - 5x - 2$

E) NOTA
5. $(4xy^3)^4 =$
- A) $-64x^4y^3$

B) $\frac{1}{4x^4y^3}$

C) $\frac{1}{64x^4y^3}$

D) $-\frac{4}{x^4y^3}$

E) NOTA
6. $(x - 4)(x + 4) =$
- A) $x^2 - 16$

B) $x^2 + 16$

C) $x^2 - 8x + 16$

D) $x^2 + 8x + 16$

E) NOTA

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