Data		Instructor: Tom Blackburn Program: NEIU MATHEMATICS PLACEMENT TESTS Test Bank: MyMathTest: Developmental Mathematics	Assignment: NEIU MPT PRACTICE TEST: Elementary Algebra
1.	Simplify: $\left(\frac{3x^4y^5}{9xy^7}\right)^2 =$		
	$\bigcirc A. \frac{x^6}{3y^4}$		
	$\bigcirc^{\text{B.}} \frac{x^6}{9y^4}$		
	OC. $9x^6y^{10}$ OD. $\frac{x^3}{9y^4}$		
2.	Square the binomial.		
	$(2x-3)^2$		
	$(2x-3)^2 = $ [[Simplify your answer.]		
3.	Find $-\sqrt{\frac{16}{9}}$.		
	Select the correct choic	e below and, if necessary, fill in the an	nswer box to complete your choice.
	OA. The answer is (Simplify your ar	. Iswer. Type an integer or a fraction.)	
	○B. The square root i	s not a real number.	
4.	Use the FOIL method to	o find the product.	
	(6z-u)(4z+5u)		
	The answer is . (Sim	plify your answer.)	

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5. Simplify: $(4x^2 - 3x + 3) - (2x^2 + 7x - 6) =$

$$\bigcirc$$
A. $2x^2 - 10x - 3$

$$\bigcirc$$
B. $2x^2 - 10x + 9$

$$\bigcirc$$
C. $6x^2 + 4x + 9$

$$OD. 2x^2 + 4x - 3$$

6. If $4x + 2 \ge 7x + 26$, then

$$\bigcirc$$
A. $x \ge 27$

$$\bigcirc$$
B. $x \ge -8$

$$\bigcirc$$
 C. $x \ge 8$

$$\bigcirc$$
D. $x \le -8$

7. If -6(2x+1) = 4x + 10, then x =

$$\bigcirc A. -2$$

$$\bigcirc$$
B. $-\frac{1}{4}$

$$\bigcirc$$
C. $-\frac{1}{2}$

8. Add.

$$\frac{1}{7} + \left(-\frac{3}{5}\right)$$

 $\frac{1}{7} + \left(-\frac{3}{5}\right) = \boxed{}$

(Simplify your answer. Type an integer or a fraction.)

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9. Simplify the numerator and the denominator separately, then find the quotient.

$$\frac{-5(-10)}{21-(-4)}$$

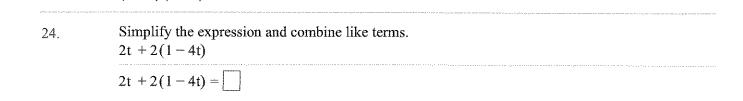
$$\frac{-5(-10)}{21-(-4)} = \square$$

(Type a fraction first. Then simplify to find the quotient.)

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10.	Multiply and simplify.		
	$\frac{9z^8}{7p^2} \cdot \frac{49p^4}{81z}$		
	The simplified product	is .	
11.	Evaluate $ -26+20 =$	and the second s	
	○A. −6		
	○B. -46		
	Oc. 6		
	○D. 46		
12.	Simplify: $\frac{6x^3 - 4x^2 + }{2x}$	8x	
	$\bigcirc Ax^2 + 8$		
	\bigcirc 8. $3x^2 - 2x + 4$		
	\bigcirc C. $3x^3 - 2x^2 + 4x$		
	OD. $6x^3 - 4x^2 + 4$		
13.	Translate to an equation	t, then solve.	
	The product of 4, and a number increased by 7, is -36 .		
	What is the number?]	
14.	Evaluate: $\frac{3^2 + 2^2 \cdot 7 - 8 - 4 \div 2}{8 - 4 \div 2}$	√ <u>49</u> - 4	
	OA. 14		
	○B. 3		
	○c. 30		
	OD 5		

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15.	A contractor finds that 6 gallons of paint will cover 900 sq ft of wall area. How much wall area could be covered with 24 gallons of paint?		
	The contractor could cover sq ft. (Simplify your answer. Type an integer or a decimal.)		
16.	If $x^2 - 3x - 18 = 0$, then $x =$		
	$\bigcirc A6 \text{ or } 3$		
	\bigcirc B. -3 or 6		
	○C1 or 18		
	$\bigcirc D18 \text{ or } 1$		
17.	Find the sum.		
	-3+[3+(-1)+(-1)]		
	-3 + [3 + (-1) + (-1)] =		
18.	Factor: 12x - 15		
	$\bigcirc A. 3(4x-5)$		
	○B. 3(4x-x)		
	\bigcirc C. $-3x$		
	$\bigcirc D. \ \ 3(4x-15)$		
19.	The difference between two positive integers is 56. One integer is three times as great as the other. Find the integers.		
	○A. 56 and 84		
	○B. 84 and 140		
	○C. 28 and 84		
	○D. 28 and 56		

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20.	Factor.			
	$4b^2 - 121p^2$			
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.			
	\bigcirc A. $4b^2 - 121p^2$			
	○B. The binomia	l is not factorable.		
21.	Which of the follow	ving is a linear factor of $2x^2 - 7x - 15$?		
	$\bigcirc A. \ 2x-3$			
	○B. x-3			
	\bigcirc C. $x+5$			
	$\bigcirc D. 2x + 3$			
22.	Simplify: (– 5a ² b	3) $(2a^{4}b^{2}) =$		
	\bigcirc A. $-10a^6b^5$			
	\bigcirc B. $-3a^6b^5$			
	\bigcirc ^C . $-10a^{-2}b$			
	\bigcirc D. $-10a^8b^6$			
23.	Multiply.	$\left(-\frac{9}{2}\right)$	$\left(-\frac{5}{4}\right) = \square$	
	(9)(5)		4 / integer or a simplified fraction.)	
	$\left(-\frac{9}{8}\right)\left(-\frac{5}{4}\right)$	(-) •	and got or a bimp into a made day,	



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25.	Solve the equation.			
	7y + 9 = -9 + 10y - 6y			
	\bigcirc A. $\frac{1}{6}$			
	\bigcirc B. $-\frac{17}{6}$			
	○c6			
	$\bigcirc D\frac{1}{6}$			
26.	Simplify: $(3x-1)(2x+3) =$			
	○A. x+2			
	\bigcirc B. $6x^2 + 7x - 3$			
	OC. 13x+3			
	$\bigcirc D. 6x^2 + 7x - 3x$			
27.	Solve the linear equation. perform a check.	Don't forget to $x = $		
	$-\frac{3}{5}x=\frac{2}{5}$	(Type an in answer, if	nteger or a fraction. Simplify your necessary.)	
28.	Factor by grouping.			
	$4a^2 + 9a - 28$			
	$4a^2 + 9a - 28 = \square$			
29.	Simplify the expression.			
	-9 - [(7-6) - (-9-3)]			

-9 - [(7 - 6) - (-9 - 3)] =

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30.	Simplify: $\frac{x^2 - 3x - 10}{x^2 - 4x - 5}$		
	$\bigcirc A. \frac{(x+5)(x-2)}{(x-5)(x+1)}$		
	$\bigcirc B. \frac{x-2}{x-1}$		

 $\bigcirc C. \quad \frac{x+2}{x+1}$ $\bigcirc D. \quad -\frac{2}{x}$

Student: Assignment: NEIU MPT PRACTICE **Instructor:** Tom Blackburn Program: NEIU MATHEMATICS Date: TEST: Elementary Algebra Time: PLACEMENT TESTS Test Bank: MyMathTest: Developmental Mathematics В 1. $4x^2 - 12x + 9$ 2. 3. $24z^2 + 26zu - 5u^2$ 4. В 5. D 6. D 7. $\frac{16}{35}$ 8. 50 9. 25 2 10. \mathbf{C} 11. В 12. -1613.

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16.	${f B}$		
17.	2	to a money semily set, and to a finished and several several several several services and the second several s	
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19.	С		
20.	A, $(2b + 11p)(2b - 11p)$		
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23.	45 32		
24.	-6t+2		
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26.	${f B}$	t i M. di alah dikanan mangan manan manan sama mangan manga panga pak ak ak ak manan mangan mangan paga Mangan mangan mangan man	1.424/1043 + 9 + 10 + 10 + 10 + 10 + 10 + 10 + 10
27.	$\frac{2}{3}$		

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28.	(4a-7)(a+4)			
29.	 22		м онд так и так оне да	
30.	С			