

# 4115

## Readiness Assessment Test

Thank you for considering this course for your student. Here are some tips for success in the Readiness Assessment process.

- Please do not provide your student this assessment or its contents until you are ready for him or her to complete it in a single sitting with no books, notes, or outside help. It is intended to be a spot check of retained knowledge and skill.
- Make sure you have the latest version of this assessment. Ideally, please download it and have your student complete it within one week prior to enrollment.
- Completed Readiness Assessment materials for a course should be submitted immediately after you enroll in the course.
- Readiness Assessment materials must be submitted by uploading from the Family Account in the Enrolled Courses view. Readiness Assessment materials are not accepted through email.
- Visit Live Chat, or email TPS Support (<u>support@pottersschool.org</u>) for questions or assistance.

WWW.AT-TPS.ORG | SUPPORT@POTTERSSCHOOL.ORG 8279 RAINDROP WAY, SPRINGFIELD, VA 22153

### Part I: Academic Background (to be completed by the parent)

#### Age/Grade

- 1. How old will your student be as of **October 1**<sup>st</sup> of the academic enrollment year?
- 2. What grade will your student be in at the start of this course?

#### **Related Coursework**

1. Please provide the title of the most recently completed (or in-progress) course in the same subject area or related subject area that might help assess academic readiness for this course:

Course Name:

- a. What is the student's in-progress or final course grade (numeric grade if available)?
- b. What is the name of the course provider (e.g., online provider, taught at home, local college)?
- c. What is the name of the course curriculum (title and name of publisher of primary text if known)?
- d. Is the student on-track to complete the entire course/curriculum by the end of the current year (if in-progress)?
- e. How is the course evaluated? Is the work self-checked, parent-checked, or evaluated outside the home?
- f. What percentage (if any) of the student's grade is based on assessments that are completed without access to notes or outside resources and completed in a single sitting without the opportunity for rework to improve the grade?

#### **Additional Background**

- 1. Is your student's first language English or a different language? If different, what is his or her language background? (Note: Most TPS classes are designed for native English speakers, but we also provide support at several levels for students whose first language is not English.)
- 2. Is there additional information that might help us better know your student and understand his or her unique abilities and needs for the best course placement and academic outcome?

Part II: Readiness Test (to be completed by the student)

- Take this test without help from books, notes or other people.
- A scientific or graphing calculator may be used.

 1.	Simplify the expression: $-9x - 2 - 12(x - 5)$								
	a. $-21x + 3$			b. $-21x + 58$					
	c. $21x + 58$			d. $-21x - 58$					
 2.									
	a. —12	b8	c. 0	d. 4					
 3.	Solve the equation: $ 2x + 3  = 9$								
	a. 3	b6	c. – 6, 3	d. no solution					
4 What is the equation of the line that passes through the point $(0, 2)$									
 4. What is the equation of the line that passes through the point $(0, -3)$ and									
(2, 2)?									
	a. $y = \frac{5}{2}x - $	3		b. $y = \frac{5}{2}x + 2$					

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5.	Given $A = \begin{bmatrix} 1 \\ 4 \end{bmatrix}$	$\begin{bmatrix} -2\\7 \end{bmatrix}$ and $B = \begin{bmatrix} 9\\1 \end{bmatrix}$	$\begin{bmatrix} 3\\-1 \end{bmatrix}$ , find $2A - B$ .	
	a. $\begin{bmatrix} -8 & -5 \\ -3 & 8 \end{bmatrix}$		b. $\begin{bmatrix} -7\\7 \end{bmatrix}$	-7 15]
	c. $\begin{bmatrix} 8 & 5 \\ 3 & -8 \end{bmatrix}$		d. $\begin{bmatrix} -7 \\ -7 \end{bmatrix}$	$^{-7}_{-15}]$

6.Factor: 
$$6x^2 + 19x + 10$$
a.  $(3x + 2)(2x + 5)$ b.  $(6x + 2)(x + 5)$ c.  $(3x + 5)(2x + 2)$ c.  $(6x + 5)(x + 2)$ 

8.Multiply: 
$$(x + i)(x - i)$$
a.  $x^2 - 2ix + 1$ b.  $x^2 - 3i$ c.  $x^2 + 1$ d.  $x^2 - 2x + i$ 

9. Simplify: 
$$\sqrt{-16}$$
  
a. -4 b. 4 c. -4*i* d. 4*i*

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10. Solve the equation: 
$$(x - 1)^2 = 9$$
  
a. 2 b. 4 c. -2 d. -2, 4

11. Find the slope of the line between the points (9, -8) and (3, 4).

a. 
$$-2$$
 b.  $-\frac{1}{2}$  c.  $\frac{1}{2}$  d. 2

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13.	Solve the equation: $\sqrt{x+4} = 8$							
	a. 68	b. 60	c. 12	d. 4				
14.	Simplify: $\frac{x^2 - 6x}{x^2 - 4x - 12}$							
	a. $\frac{3}{2x-6}$	b. $\frac{x}{x+2}$	<b>C.</b> $\frac{x}{x-2}$	d. $\frac{x}{x-6}$				
15.	Solve the equation: $4^{3x+6} = 64$							
	a1	b. $-\frac{1}{3}$	c. 3	d. – 3				
16.	Find the inverse for the following function: $f(x) = x^2 + 4$ .							
	a. $f^{-1}(x) =$ c. $f^{-1}(x) =$	$\frac{x^2 - 4}{\sqrt{x + 4}}$		b. $f^{-1}(x) = x + 2$ d. $f^{-1}(x) = \sqrt{x - 4}$				
17.	Find the distance between the points $(-3, 5)$ and $(1, 7)$ .							
	a. 10	b. $2\sqrt{29}$	c. $2\sqrt{5}$	d. 20				
18.	18. Write as an exponential equation: $log_2 8 = 3$ .							
	a. $3^2 = 8$	b. $2^3 = 8$	c. $2^8 = 3$	d. $8^2 = 3$				
19.	Simplify: $(2x - 5)(2x + 5)$							
	a. $4x^2 - 25$		b. $4x^2 - 20x + 25$					
	c. $4x^2 - 20x$	: – 25		d. $4x^2 + 25$				
20.	Solve: $3(3x - 2) + 9 \le 13x - 1$							
	a. $x \ge -1$	b. $x \le -1$	c. <i>x</i> ≤ 1	d. $x \ge 1$				