Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block:\_\_\_

Quiz: Unit1. Review.

Practice

Arithmetic, PEMDAS, Lines

Group A.

There are 10 questions in this quiz, each of equal value.

Standard time for the test is 15 minutes .

No calculator is allowed. (accommodation excepted)

\*\*\*\*\*\*\*\* Since this is a PRACTICE, you actually have 20 questions.\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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| --- | --- |
| 1. $\frac{7}{4}-\frac{4}{7}=$

Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. $\frac{7}{4} ÷\frac{4}{7}=$

 Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. $\frac{5}{8}⋅\frac{4}{7x}⋅\frac{8}{5}⋅2x=$

 Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Solve

 $\left(x-3\right)⋅\frac{1}{4}=\frac{1}{2}⋅\left(12-x\right)$ X=\_\_\_\_\_\_\_\_\_ |
| 1. Simplify:

 $\left(x-3\right)⋅\left(x+2\right)-(x-1)=$ Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Simplify:

 $\left(5-x\right)⋅(5+x)=$ Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1. $\frac{2x+3}{4}-\frac{3x-4}{3}=$
 | 1. $\frac{3x}{4} ÷\frac{9x-6}{8}=$
 |
| 1. $\left(2x^{-1}\right)^{2}⋅\frac{3x^{4}}{\left(3x\right)^{2}}=$
 | 1. $\frac{-3^{2}⋅x^{4}⋅y^{-2}}{2x^{5}⋅\left(y^{3}\right)^{4}}=$
 |
| 1. Solve:

 $9-4x+\left(2x-2\right)=10+x$ | 1. Solve:

 $\frac{6x+9}{3}-\left(2x+2\right)=4-x$ |

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| 1. Plot the line going through the points:

 $ (-2,-4)$ , $(3,1)$  1. Specify the coordinates of:

X intercept \_\_\_\_\_\_\_\_\_\_Y intercept \_\_\_\_\_\_\_\_\_\_1. Write the equation of the line in slope-intercept form:

 Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. Write the equation of the line in standard form:

 Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Plot the line going through the point

 $ (2,4)$ , and has a slope of $-3$. 1. Specify the coordinates of:

X intercept \_\_\_\_\_\_\_\_\_\_Y intercept \_\_\_\_\_\_\_\_\_\_1. Write the equation of the line in slope-intercept form:

 Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1.
2. Find the line that goes through the point $(0,5)$ ,and is perpendicular to the line $y=2x$.

  Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. What is the intersection point of these two lines?

 Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. Plot the two lines, and indicate the intersection point.

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| 1. What is the slope of the line described by

$$3y+2x=5$$ m=\_\_\_\_\_\_\_\_\_\_\_\_ | 1. What is the slope of a line perpendicular to the line that goes through the two points $(2,5)$ and $(-1,3)$?

 m=\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Do the following two lines meet? If they do, what is the intersection point?

Line 1: $3y+2x=5$Line 2: $6y=5-4x$ Meeting= Yes / N0 Intersection point=\_\_\_\_\_\_\_\_ | 1. Calculate the following absolute value expressions:
2. $\left|-7\right|= $
3. $\left|3\right|=$
4. $\left|3-7\right|= $
5. $3-\left|7\right|=$
 |

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| 1. The picture below describes a right triangle. The 3 sides have slopes denoted as $m\_{1}, m\_{2}, m\_{3}$.

What can you say about the value of the product $(m\_{1}⋅ m\_{2}⋅m\_{3})$ ? See 4 options below. Explain your answer.graph_axes_10.jpg1. $-\infty <(m\_{1}⋅ m\_{2}⋅m\_{3})\leq -1$
2. $-1\leq (m\_{1}⋅ m\_{2}⋅m\_{3})\leq 0$
3. $0\leq (m\_{1}⋅ m\_{2}⋅m\_{3})\leq 1$
4. $1\leq (m\_{1}⋅ m\_{2}⋅m\_{3})<\infty $
 |

=== End ====