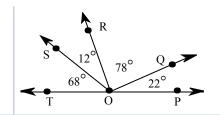
1. Identify each pair of complementary angles.

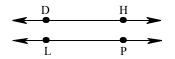


Which angle is complementary to ∠TOS?

- O A. ∠QOP
- O B. ∠TOP
- O c. ∠ROQ
- OD. ∠SOR

Which angle is complementary to ∠ROQ?

- O A. ∠SOT
- O B. ∠TOP
- C. ∠QOP
- OD. ∠SOR
- 2. Determine whether the following lines are parallel, perpendicular, or intersecting.



Are the lines DH and LP parallel, perpendicular, or intersecting?

- O A. Perpendicular
- OB. Intersecting
- O. C. Parallel
- 3. Add the following.

$$-10 + (-29)$$

- 10 + (- 29) = <u>______</u>

4. Add the following.

$$14 + [-9 + (-4)]$$

5. Find the difference.

$$3 - (3 - 6)$$

6. Add the following.

$$3\frac{9}{10} + (-4\frac{4}{5})$$

Which of the following is the correct sum?

- \bigcirc **A**. $-\frac{9}{10}$
- OB. 87
- O. C. 9
- **D**. -1

7.	Add. Do not use a number line except as a check.				
	$-\frac{5}{6} + \frac{2}{3}$				
	$-\frac{5}{6} + \frac{2}{3} = \underline{\hspace{1cm}}$ (Simplify your answer. Type an integer or a fraction.)				
8.	Add the following.				
	$2\frac{3}{4} + (-3\frac{1}{2})$				
	Which of the following is the correct sum?				
	O A. $6\frac{1}{4}$ O B1 O C. $\frac{3}{4}$ O D. $-\frac{3}{4}$				
9.	Add the following. Do not use a number line except as a check.				
	- 62.7 + 35.5				
	- 62.7 + 35.5 =				
10.	Find percent notation for 0.374.				
	0.374 =% (Simplify your answer. Type an integer or a decimal.)				
11. Find percent notation for 0.0386.					
	0.0386 =% (Type an integer or a decimal.)				
12.	Solve for part.				
	45% of 640 guests = guests				
	guests				
	(Type an integer.)				
13.	56 students is 70% of how many students? students				
14.	Find the unknown value in the percent proportion $\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$. part = 70, whole = 56				
	The answer is%.				
15.	Find the whole if the part is 44 and the percent is 40. The whole is				

16. Solve using the principles together. Don't forget to check.

$$8x - 9 = 11x + 12$$

The solution is x = _____.

17. Solve.

$$3(x + 4) = 5(x - 2)$$

x = ____

18. Solve.

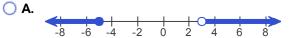
$$\frac{5}{2}$$
 x + $\frac{1}{4}$ x = $\frac{7}{4}$ + x

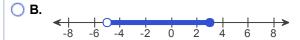
The solution is x = . (Simplify your answer. Type an integer or a fraction.)

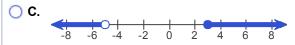
19. Graph on a number line, where x is a real number.

$$-5 < x \le 3$$

Choose the graph of $-5 < x \le 3$.







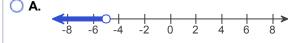


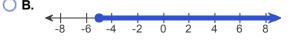
20. Solve for x. Graph the solution.

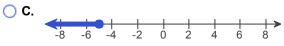
$$4x + 1 < 3x - 4$$

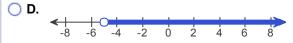
The solution is $x < \underline{\hspace{1cm}}$.

Which is the correct graph?





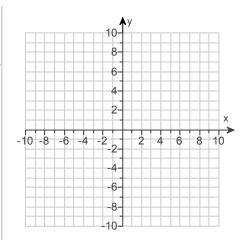




21	Granh	tho	linoar	oquation
ZI.	Grapn	uie	iirieai	equation.

$$x - y = 3$$

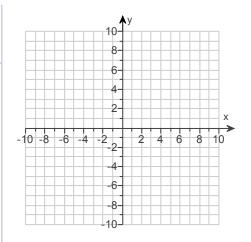
Use the graphing tool on the right to graph the line.



22. Graph.

$$6x + 4y = -24$$

Use the graphing tool on the right to graph the equation.



23. Find the slope, if it exists, of the line containing the pair of points.

$$(-14, -1)$$
 and $(-19, -7)$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The slope is . (Type an integer or a simplified fraction.)
- OB. The slope is undefined.
- 24. Find the slope, if it exists, of the line containing the pair of points.

$$(7,5)$$
 and $(10, -7)$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

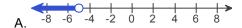
- A. The slope m = _____. (Simplify your answer. Type an integer or a fraction.)
- OB. The slope is undefined.
- 25. In a mixture of concrete, there are four lb of cement mix for each pound of gravel. If the mixture contains a total of 105 lb of these two ingredients, how many pounds of gravel are there?

How many pounds of gravel are there?

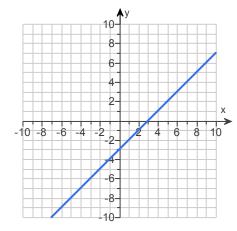
26.	A midwestern music competition awarded 32 ribbons. The number of blue ribbons awarded was 3 less than the number of white ribbons. The number of red ribbons was 2 more than the number of white ribbons. How many of each kind of ribbon was awarded? How many white ribbons were awarded? How many blue ribbons were awarded?				
	How many red ribbons	s were awarded?			
27.	The sum of the measures of the angles of any triangle is 180 degrees. In triangle ABC, angles A and B have the same measure, while the measure of angle C is 90 degrees larger than each of A and B. What are the measures of the three angles?				
	Angle A is	degrees.			
	Angle B is	degrees.			
	Angle C is	degrees.			
28.	Write in exponential notation.				
	$\left(\frac{1}{5}\right)\left(\frac{1}{5}\right)\left(\frac{1}{5}\right)\left(\frac{2}{5}\right)$	$\left(\frac{1}{5}\right)\left(\frac{1}{5}\right)\left(\frac{1}{5}\right)$			
		$\left(\frac{1}{5}\right)\left(\frac{1}{5}\right) = \underline{\qquad}$ ing exponential notation. Us	se integers or fractions for any numbers in the expression.)		
29.	Identify the base and the exponent $2x^3$				
	The base is				
	The exponent is				
30.	Multiply and simplify.		$8^5 \cdot 8^4 =$		
	8 ⁵ · 8 ⁴		(Type your answer using exponential notation. Use positive exponents only.)		

1. A. ∠QOP D. ∠SOR
2. C. Parallel
3 39
4. 1
5. 6
6. A. $-\frac{9}{10}$
7 1 6
8. D. $-\frac{3}{4}$
9. – 27.2
10. 37.4
11. 3.86
12. 288
13. 80
14. 125
15. 110
167
17. 11

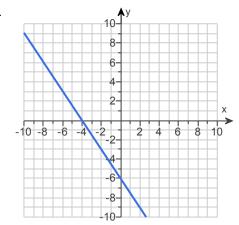
- 19. R -8 -6 -4 -2 0 2 4 6 8
- 20. 5







22.



- 23. A. The slope is $\frac{6}{5}$. (Type an integer or a simplified fraction.)
- 24. A. The slope m = _____. (Simplify your answer. Type an integer or a fraction.)

26.	11
	8
	13
27	20
27.	
	30
	120
28.	$\left(\frac{1}{5}\right)^6$
29.	x
	3
30.	8 ⁹