TSI-Math T	est Name	:
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Question 1

Use the formula $C = \frac{5}{9}(F - 32)$. What is the temperature in degrees Celsius if the temperature in Fahrenheit is 86° F?

A.186.8° C **B.** 97.2° C **C.** 30° C **D.**54° C

Question 2

If x = -2, and $y = x^2 - 4x + 9$, What is the value of y? **F.** 13 **G.** 21 **H.** - 3 **J.** 3

Question 3

A basket of fruit has 5 bananas , 4 oranges , 7 apples and 2 grapefruits. What is the probability of selecting a fruit that is NOT apple or banana ?

Question 4

Given midpoint M (-5,9) and endpoint A (7,19), what is the x value of endpoint B?

		<i>A</i>	M	<u>В</u>	
F. -7	G. 17		H. 7		J. -17

Question 5

Which is not a fa	actor of $10x^3 + 28x^2 - 6x$?		
A. <i>x</i>	B. <i>x</i> – 3	C. <i>x</i> + 3	D. 5 <i>x</i> – 1

Question 6

Ashley wants an average grade of 82 from her four Geometry exams. The scores for her first three exams are 73, 88, and 78. What grade would Amy need to earn on her fourth exam to have an average grade of 82?

A. 98	B. 87	C. 89	D. 83

If the perimeter of a square is 48 units and one side of the square is 6x units, find the value of x?

F. 3	G. 2	H. 12	J. 24
Question 8	aan anothar number if	twice the small number	is equal to the bigger number
	the smaller number ?		is equal to the bigger number,
A. 7	B. 6	C . 5	D . 4
Question 9			
Simplify $\left(\frac{5}{y^4}\right)^2$			
A. $\frac{25}{v^6}$	B. $\frac{10}{v^6}$	C. $\frac{25}{v^8}$	D. $\frac{10}{v^8}$
2	2	2	
Question 10			
If $4b+1=b$, what is	s the value of 24b?		
F. 8	G. – 8	H. – 6	J. $-\frac{1}{3}$
Question 11			
If $\frac{2}{3x} + \frac{1}{x} = 30$, w	Vhat is the value of x ?		
A. $\frac{1}{18}$	B. 18	C. $\frac{3}{2}$	D. $\frac{5}{3}$
		-	
Question 12			
If p is the original price of an item. Which equation can be used to find the new price after 10% off?			
F. 0.10 <i>p</i>	G. 10 <i>p</i>	H. 0.90 <i>p</i>	J. 1.10 <i>p</i>

Question 13

A set of numbers 2,3,6,6,8,9 if number 2 was removed from the set , Which of these will not change ?

F. mean

H. mode

Question 14

If x is the number of miles per hour John is driving , how many miles will he cover in 90 minutes?

A. $\frac{3}{2}x$ **B.** $\frac{2}{3}x$ **C.** $\frac{9}{2}x$ **D.** $\frac{2}{5}x$

Question 15

James has 5 friends, he has 2 extra tickets to a baseball game, how many ways he can choose the two friends that can go with him ?

C. 8 **D.** 10 **A**. 7 **B**. 5

Question 16

If $3a^2 + n - b^2 = (3a - b)(a + b)$? Which expression represents <i>n</i> ?				
F. – 2 <i>ab</i>	G 2 <i>ab</i>	H. 3 <i>ab</i>	J. – <i>ab</i>	

Question 17

A survey was conducted of 200 people of their favorite food. What is the difference of the number people that like Tacos and the people that like pizza?

A . 45	20 Piz	5% zza
B. 35	20'	40% Tacos
C. 30	Pas	ta 15% Chineese
D. 55		

Question 18

What values of h make the equation $(h-3)^2 - 5 = 4$ true? **B** {-3,3} **C.** {-6,0} **A.** $\{-6, 6\}$ **D.** {0, 6}

Question 19

Which value will result in the expression being not defined $\frac{x^2-5x+9}{3x-6}$?

A. – 2 **B** 2 **C.** – 1 **D.** 1

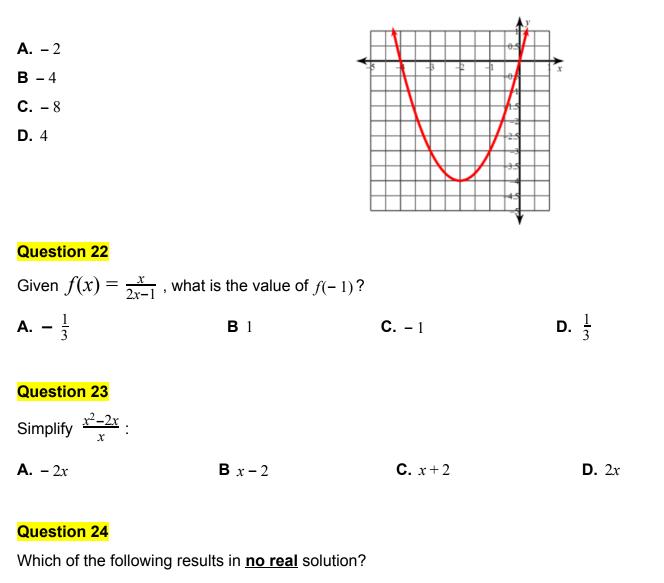
Question 20

What are the factors of $25x^2 - 100$?

A.
$$(5x - 10)(5x + 10)$$
 B $(5x - 10)^2$ **C.** $(25x - 1)(x + 100)$ **D.** $(x - 1)(x + 100)$

Question 21

Given the vertex form of the graph $y = (x - h)^2 + k$, what is the value of k?



A. $x^2 = 16$	B – $x^2 = 16$	C. $-x^2 = -16$	D. $x^2 - 16 = 0$
Question 25			
Solve for x for the equation	$\frac{2}{x} = \frac{18}{7}$		
F. $\frac{7}{9}$	G. $\frac{9}{7}$	H. $\frac{9}{14}$	J. $\frac{14}{9}$