1.	What is $\frac{5 \times 4 \times 3 \times 2 \times 1}{3 \times 2 \times 1}$?	1. 20
2.	How much larger is 1+2+3+4+5+6+7+8+9+10 than 1+2+3+4+5?	2. 40
3.	Simplify $\frac{1}{2} + \frac{1}{3} - \frac{1}{4}$ a. $\frac{1}{9}$ b. $\frac{7}{12}$ c. $\frac{5}{12}$ d. $\frac{1}{24}$	3. a b c d
4.	Simplify: $\frac{1-\frac{1}{2}}{1-\frac{1}{3}}$ a. $\frac{1}{3}$ b. $\frac{4}{3}$ c. $\frac{3}{4}$ d. $\frac{1}{4}$	4. a b c d
5.	Express the decimal sum as a reduced fraction. $0.45 + 0.305 + 0.05$ a. $\frac{71}{200}$ b805c. $\frac{805}{1000}$ d. $\frac{161}{200}$	5. a b c d
6.	Jenny made four purchases. She purchased 5 cats, the value \$3.49 each; 6 goldfish at \$ 2.89 each; 9 hamsters at 2.99 each; 15 gerbils at 1.49 each. How much did she spend?	6. \$84.05
7.	What is the largest 3-digit number that can be obtained from 4921508 by crossing out 4 digits? Keep the digits in their original order.	7. 958
8.	If $a = 99$ and $b = 4$, find the remainder of the division $\frac{a}{b}$.	8. 3
9.	75% of a 12-slice pizza is slices. a. 7 b. 8 c. 9 d. 10	9. a b c d
10.	What is x+2+x+2+x+2+x+2+x+2+x+2 if x is equal to 7?	10. 54
11.	How many numbers are equal to their reciprocals? a. One only b. Two only c. Three only d. None.	11. a b c d
12.	Rebecca takes 20 minutes to cut a stick of bamboo into 5 pieces. How long does it take her to cut another stick into 9 pieces?	12. 40 minutes
13.	There are 12 eggs in a carton, 8 cartons in a crate, and 9 crates in a container. How many eggs are in a container?	13. 864 eggs
14.	Eight squares are connected as shown, the length of every side is 3 inches, find the perimeter of the figure.	14. 48 in

15.	What is the result	when the largest r	number ir
	divided by the sm	allest number in th	e set?
16.	Simplify $\frac{3}{\left(\frac{1}{-3}\right)}$		
	a. $\frac{1}{3}$	b. 9	c9
17.	$2 \div 1 = (22 + 44) \div$ a. (2+4)	? b. 11	c. 22
18.	What is 6.5% of 2	70?	
19.	Calcuate the valu a. $s = \frac{3}{4}$	e of s such that 8s b. $s = -2$	-6=0. c. s=2
20.	Half of a third of a	number is 1,801.	What is t
21.	Solve for x: 20x =	=16.	
	a. $x = -\frac{4}{5}$	b. $x = \frac{4}{5}$	c. <i>x</i> = -4
22.	Solve for $n: \frac{n^2 - n}{n}$	$\frac{5n}{6}=0.$	
	a. <i>n</i> =0,5,6	b. <i>n</i> =0	c. <i>n</i> =0,
23.	Find the value of	$\frac{1}{5+\frac{1}{5+\frac{1}{5}}}$	
24.	Evaluate: $-1^{20} + 1^{20}$	(-1) ²¹ b1	c. 0
25.	Compute: $\frac{17}{32}$ - a. $-\frac{68}{57}$	$\frac{4}{25}.$ b. $-\frac{297}{800}$	c. $\frac{13}{57}$
26.	Each equilateral t the parallelogram	riangle shown has a ? ? b. 8	a perimet c. 12

in the set $\left\{\frac{1}{8}, 2, \frac{1}{4}, 0.3, 8\right\}$ is	15. 64
d1	16. a b c d
d. (11+22)	17. a b c d
	18. 17.55
d. $s = -\frac{3}{4}$	19. a b c d
the number?	20. 10,806
4 d. <i>x</i> = 320	21. a b c d
0,5 d. <i>n</i> =0,6	22. a b c d
	23. $\frac{26}{135}$
d. 1	24. a b c d
d. $\frac{297}{800}$	25. a b c d
eter of 6. What is the perimeter of d. 18	26. a b c d
u. 10	

 27. In the figure below, assume all the angles that appear to be right angles are actually right angles. What is the perimeter of the figure? a. 9 b. 16 c. 17 d. 18 	27. a b c d	Oklahoma Middle Scho	12t School of ol Mathem Mare
28. Solve for x. a. 25° b. 30° c. 55° d. 150°	28. a b c d		
 29. Pi's Pizza Palace sells a 6-inch diameter pizza for \$6, an 8-inch diameter pizza for \$8, and a 10-inch diameter pizza for \$10. Which is the best buy? a. the 6 in pie b. the 8 in pie c. the 10 in pie 	29. a b c	NAME: (Please print)	AGE
30. <i>k</i> is an unknown number between -4 and -5. Which is the largest number? a. $-k+5$ b. $\frac{k+4}{2}$ c. $\frac{k+2}{2}$	30. a b c ■□□	Email:	
31. Three of these expressions are equivalent. Which one is <u>NOT</u> ? a. $x-y+z$ b. $x+z-y$ c. $-y-(z-x)$ d. $x-(y-z)$	31. a b c d	SCORE (For official use)	GENDER (Circle one)
		P1 P2 P3	M F
SPECIAL Which of the following statements is true? There may be more than o ■ 3 ⁵ is greater than 5 ³ .	ne correct answer.	Total:TB: Y N	
\Box x^3 is always greater than x^2 when x is positive number. \Box x is always greater than $\frac{1}{x}$ when x is positive.		Parents' names: (Pleas	e print)
 x+1 is always greater than x for any number x that can be represented of If x and y are both positive numbers and if x > y, then -x > -y. If x and y are both positive numbers and if x > y, then -x < -y. If x and y are both positive numbers and if x > y, then 1/x is always greater to 	the number line. than $\frac{1}{y}$.	Directions: Use the scratch paper prov answer(s) to each question in the bo singular form is correct. <u>All fraction</u> This is a 31-question, 1-hour contest. 1	ided to do your v ox to the right of <u>s should be in sir</u> The special quest
\Box If x and y are both positive numbers, then x always equals y.		is worth one point. Your score will b partial credit or penalty for wrong a Do Not Open o	be the number of nswers. Please c r Turn Ove

n Ar Scie natio	nnual ence and Mathemat cs: An Awesome Co <i>2014</i>	tics ntest GRADE LEVEL
	mm / dd / yy	
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	HOME ADDRESS	D 6 (Please print)
	HOME ADDRESS	O 6 (Please print)
	HOME ADDRESS Street City	O (Please print)
	HOME ADDRESS Street City Zip School	O (Please print)

ir work. Calculators are allowed, but not necessary. Write the of the question. Units are given in plural form even if the simplest form, $\frac{3}{2}$ not $1\frac{1}{2}$.

stion on the last page may be used to break ties. Each question of correct answers (excluding the tie-breaker). There is no e continue working or reworking problems until time is called.

ver Until Instructed To Do So