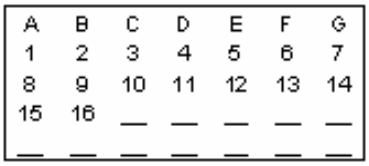
Team Bowl 8

1.	The product of two numbers is 144 and their difference is 10. What is the sum of the two numbers?	1._____
2.	Peter agreed to work after school for 8 weeks at a fixed weekly rate. Instead of being given only money, he was to be given $85 and a bicycle. However, Peter worked only 5 weeks at the fixed weekly rate and was given $25 and the bicycle. How much was the bicycle worth?	2._____
3.	Anita took $\frac{1}{6}$ of a cake and Barry took 60% of what remained. What fraction of the original cake is left?	3. _____
4.	Suppose all the counting numbers are arranged in columns as shown. Under what letter will the number 1000 appear? 	4. _____

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5.	The number of times a dog barks is dependent on the number of passing cars. If 20 cars pass, how many times will the dog bark? Barking Dogs Cars | Barks 6 | 4 7 | 7 8 | 10 9 | 13 10 | 16	5. _____
6.	There is a group of people with a basket of apples. If everyone gets 6 apples, they need 5 more apples. If everyone gets 5 apples, they have 6 left over. How many people are there? How many apples?	6. Number of people ____ Number of apples ____
7.	When the same whole number is added to both the numerator and denominator of $2/5$, the value of the new fraction is $2/3$. What was the number added to both the numerator and denominator?	7. _____
8.	Twelve people purchased supplies for a ten-day camping trip with the understanding that each of the twelve will get equal daily shares. They are then joined by three more people, but make no further purchases. How long will the supplies then last if the original daily share for each person is not changed?	8. _____ days

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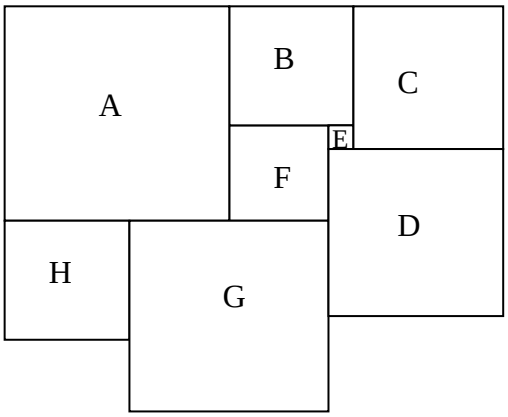
9.	A book has 500 pages numbered 1, 2, 3, and so on. How many times does the digit 1 appear in the page numbers?	9. _____
10.	Given: $\frac{1}{3}=\frac{1}{A}+\frac{1}{B}$ where A and B are different whole numbers. What are the values of A and B?	10. A = _____ B = _____
11.	Look at this picture of squares. The area of square F is 16 square units. The area of square B is 25 square units. The area of square H is 25 square units. Find the area for square D and square E. 	11. D: _____ square units E: _____ square units
12.	The digit 3 is written at the right of a certain two-digit number thus forming a three-digit number. The new number is 372 more than the original two-digit number. What was the original two-digit number?	12. _____

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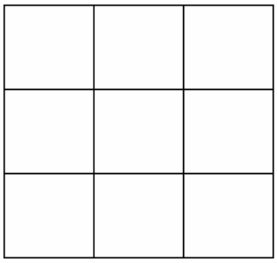
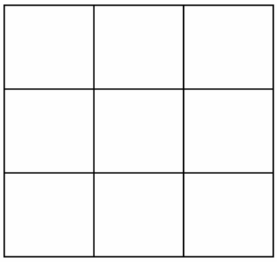
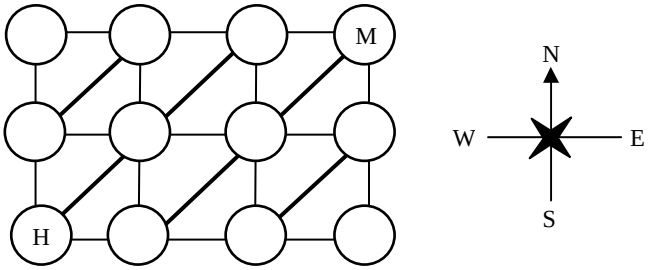
13.	The sum of the ages of three children is 32. The age of the oldest is twice the age of the youngest. The ages of the two older children differ by three years. What is the age of the youngest child?	13. _____
14.	Use these clues to fill out the grid below with the letters A to I. You can only use each letter once. a) B is in the same column as E and H. b) F is to the left of B and directly above D. c) G is to the right of E and directly above I. d) D is directly left of H and in the same column as A. 	14. 
15.	Jenny has a job that paid $20,000 a year. She accepted a new job that paid her 5% less. After one year on the new job she got a 5% raise. What was her salary after the raise?	15. _____
16.	The map below shows an assortment of routes from your home (H) to the movie theater (M). If you can only travel in a north, east, or northeast direction, how many possible routes are there from your home to the theater? 	16. _____

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17.	In three bowling games, Alice scores 139, 143, and 144. What score will Alice need in a fourth game in order to have an average score of exactly 145 for all four games?	17. _____
18.	Usually each person in a math study group eats a small round pepperoni pizza with a 6 inch diameter. There are five people in the study group and they want to share one pizza. Precision Pizza will make a round pizza of any diameter. To the nearest half inch, what is the diameter of the pizza that should be ordered from Precision Pizza so that everyone gets the usual amount?	18. _____ inches
19.	There are some pigs and some geese in a pen. There are a total of 40 feet and 14 heads. How many of each is in the pen?	19. Pigs _____ Geese _____
20.	100 monks have 100 loaves of bread. Each Senior monk gets 3 loaves of bread. Three Junior monks have to share 1 loaf of bread. How many Senior monks are there?	20. _____