| 1. What is $x \times 2+x \times 2+x \times 2+x \times 2+x \times 2+x \times 2$ if $x$ is equal to 5 ? | 1.60 |
| :---: | :---: |
| 2. Simplify $\frac{9}{-\frac{6}{9}}$ | 2. $-\frac{27}{2}$ |
| 3. A hamster cage has 3 hiding places. One of the hideouts is split into four parts. How many hiding places are in the cage now? | 3.6 |
| 4. What is the value of the expression: $\frac{1}{7} \times \frac{2}{5}+\frac{1}{7} \times \frac{3}{5}$ ? | 4. $\frac{1}{7}$ |
| 5. A mile is $5,280 \mathrm{ft}$. How many miles per hour is 528 feet per minute? | 5. 6 mph |
| 6. Cross out 3 digits from the number 314159 in such a way that the resulting 3 digit number will be the smallest possible. What is that smallest number? | 6.115 |
| 7. Dividing 133 by 29 we find a quotient and a remainder. What is the sum of the quotient and the remainder? | 7. 21 |
| 8. Four notebooks cost as much as five sharpeners. If 10 sharpeners cost $\$ 4.00$, how much will 13 notebooks cost? | 8. $\quad \$ 6.50$ |
| 9. Half of a third of a number is 18. What is the number? | 9.108 |
| 10. Simplify: $\frac{1-\frac{1}{2}}{1-\frac{1}{3}}$ <br> a. $\frac{1}{3}$ <br> b. $\frac{4}{3}$ <br> c. $\frac{3}{4}$ <br> d. $\frac{1}{4}$ | $\text { 10. } \begin{array}{rlll} a & b & c & d \\ \square & \square & \square & \square \end{array}$ |
| 11. What is $25 \%$ of 3,600 ? | 11. 900 |
| 12. On a recent episode of "Who Wants to Be a Mathematician" a contestant was asked to arrange the following numbers in order lowest to highest: $\begin{array}{lllll} 2 / 3 & 0.6666 & 3 / 5 & 0.666 & 0.67 \end{array}$ <br> When in proper order, what is the middle number? | 12. 0.6666 |
| 13. If $k$ is between 2 and 3 , then which of the following is smallest? <br> $\begin{array}{lllll}k & k-2 & k+3 & -k & 6-k\end{array}$ | 13. -k |
| 14. Express the following complex fraction as a common fraction: $\frac{2}{5+\frac{3}{1+4}}$ | 14. $\frac{5}{14}$ |
| 15. Find the smallest whole number that is larger than $1 \frac{1}{2}+2 \frac{1}{3}+3 \frac{1}{4}$ | 15.8 |
| 16. If $\ddot{\oiint}=6 \mathrm{a}$ and $\diamond=3 \mathrm{a}$, what is the value of $\ddot{*} x \ddot{\aleph}+\diamond$ ? | 16. $36 a^{2}+3 a$ |
| 17. Find the value of $\frac{1}{9+\frac{1}{5+\frac{1}{9}}}$ | 17. $\frac{46}{423}$ |
| 18. Find the length of the longest side of a rectangle with area of $20 \mathrm{in}^{2}$ and perimeter of 18 in . | 18. 5 inches |


| 19. The average of 5 consecutive integers is 27.0 One of the integers is removed |
| :--- | :--- | :--- | :--- |
| and the sum of the remaining integers is 106 . What is the value of the integer |
| that was removed? | 19.

