| 96 ( units ${ }^{2}$ ) | 1-1 | Find the surface area of a cube that has a volume of 64 units $^{3}$. |
| :---: | :---: | :---: |
| 16 | 1-2 | Find $\mathrm{x}: 81^{4}=3^{\mathrm{x}}$ |
| 16 | 1-3 | The mean of 19 consecutive integers is 16. Find the median of those 19 integers. |
| -15050 | 1-4 | Find the sum of the integers from -101 to -200 inclusive. |
| 8:3 | 1-5 | The ratio of pigs to cows is $2: 1$. The ratio of cows to ducks is $4: 3$. Find the ratio of pigs to ducks. |
| 2/17 | 2-1 | Find the probability of picking 3 red cards without replacement from a standard deck of 52 playing cards. |
| 37.5\% | 2-2 | The odds of winning a fundraiser raffle are said to be 3 to 5 . What is the percent chance of winning? |
| 0 | 2-3 | Find the sum of the solutions to the equation: $\frac{x}{2}=\frac{2}{x}$ |
| 1 (cm) | 2-4 | The volume of a cube is tripled. If the new volume is $3 \mathrm{~cm}^{3}$, find the original side lengths. |
| 1/16 | 2-5 | What is the probability of tossing a coin 4 times and it landing on heads 4 times in a row? |
| 7 | 3-1 | On a scale, 3 apples and 1 banana balances 10 plums. One apple and 6 plums balance 1 banana. How many plums will balance one banana? |
| 100000 | 3-2 | Simplify: $\frac{25.6^{5}}{2.56^{5}}$ |
| 3/8 | 3-3 | Mrs. Smith has 4 children. Find the probability that exactly two of the children are boys? |
| 24 | 3-4 | A tennis ball is dropped from 81 feet high. It bounces up $2 / 3$ of the way on each bounce. How many feet does it bounce on the $3^{\text {rd }}$ bounce? |
| 42 | 3-5 | 63 is $150 \%$ of what number? |
| 3840 liters | 4-1 | A truck can pump 800 liters of oil in 25 minutes. How many liters can it pump in 2 hours? |
| 2 | 4-2 | Mud is made by mixing water and dirt. How many liters of water must be added to 8 liters of dirt to get mud that is $20 \%$ water? |
| $5 \sqrt{5}(\mathrm{ft})$ | 4-3 | A pull down attic ladder is designed to have a slope of 2 . If the ceiling is 10 feet high, how long must the ladder be to exactly reach the ceiling from the floor? |
| 9 | 4-4 | If all corners shown are 90 degrees, how many rectangles are there in the drawing? |
| 2e/3 | 4-5 | Simplify: $\frac{(2 \pi)^{2}}{e} \div \frac{6 \pi^{2}}{e^{2}}$ |
| 2e/3 | 4-5 | Simplify: $\frac{e}{e} \div \frac{e^{2}}{e^{2}}$ |

