|  |  | Answers | Score |
| :--- | :--- | :--- | :--- |
| 1. | What is the value of $5+8 \times 3+1+\sqrt{9}$ |  |  |
| 2. | What is the area of a circle with diameter 10 ? <br> Express our answer in term of $\pi$. |  |  |
| 3. | Find the missing factor: <br> $20 \times 30 \times 40=2 \times 4 \times 6 \times$ | What fraction of an hour passed today between <br> $11: 09$ am and $11: 41$ am? |  |
| 5. | Adrian is traveling on $1-405$ at a rate of 55 miles <br> per hour. At this rate, how many hours will it take <br> for Adrian to travel 330 miles? |  |  |
| 6. | What is the next number in the following series? <br> $3,9,21,45$, |  |  |
| 7. | What is the probability to draw a 2 of hearts or <br> an ace from a standard deck of cards? |  |  |
| 8. | How many perfect squares are between 20 and <br> 145 ? |  |  |
| 9. | Evaluate: $\frac{2}{3} \times \frac{4}{5} \times \frac{6}{7} \times \frac{7}{6} \times \frac{5}{4} \times \frac{2}{3}$ |  |  |
| 12. | Find the smallest of five consecutive numbers |  |  |
| whose sum is 100. |  |  |  |

What is the average of all the odd numbers between 2 and 10?

For each dollar Brandt earns, he puts a quarter and a penny in the bank. If he has earned \$83, how much money, in dollars, has he put in the bank?

Twice my favorite number is one-hundred-two favorite number. What is my favorite number?

What is the mean of $2 / 3$ and $4 / 9$ ?
18.

Evaluate: $(11+22+33) \div(1+2+3)$
19. Evaluate: $3 \frac{3}{11} \times 7 \frac{1}{3}$
20.

40 yards of fabric was used to make 6 Halloween capes. How many yards are used to make 1 cape?
5.5 gallons of orange juice was poured equally juice in each cup. 1 gallon $=128$ oz

Find the probability of rolling a sum of 1 or a sum of 13 with two standard dice (numbered 1-6).

Find the least common multiple of 6,7 , and 8 .

What is the sum of $60 \%$ of 75 and $75 \%$ of $60 ?$
$\left.\begin{array}{|l|l|l|}\hline \text { 25. } & \begin{array}{l}\text { Bharat saved } \$ 280 \text {. Koa saved } \$ 120 \text { more than } \\ \text { Bharat. What percentage of Koa's money must be } \\ \text { given to Bharat so each of them has the same } \\ \text { amount of money? }\end{array} & \\ \hline \text { 26. } & \begin{array}{l}\text { The ratio of red cars to black cars to white cars on } \\ \text { a car lot was } 8: 6: 12 . \text { If there were } 182 \text { cars } \\ \text { altogether, how many black cars were there? }\end{array} & \\ \hline \text { 27. } & \begin{array}{l}\text { Adding } 38 \text { to a number increases it by } 5 \% \text { of its } \\ \text { original value. What is the original number? }\end{array} \\ \hline \begin{array}{l}\text { It takes } 3 \text { teacher } 3 \text { hours to write } 36 \text { test } \\ \text { problems. Assuming the } 3 \text { teachers work at the } \\ \text { same average rate, what is the number of } \\ \text { minutes it would take for } 1 \text { teacher to write } 6 \text { test } \\ \text { problems? }\end{array} & \\ \hline \text { 29. } & \begin{array}{l}\text { Ben drives from Alpville to Bizzburg at } 70 \text { miles } \\ \text { per hour, then drives back along the same route } \\ \text { at } 20 \text { miles per hour. As a mixed number, what } \\ \text { was his average speed, in miles per hour? }\end{array} & \\ \hline \text { 30. } & \text { What is the product of } 0.5 \% \text { of } 500 \text { and } 5 \% \text { of } 50 \text { ? }\end{array}\right\}$

