

Oak Grove Math Superstars

Due Dates:



Session	Last Monday of
1	September
2	October
3	November
4	January
5	February
6	March

Grade 4

Session 3 - Answers

(50 points total; 10 points deducted if late)

● = easier ● ● = harder ● ● ● = hardest

1. The distance between downtown Atlanta and downtown Macon is 84 miles. There are 1760 yards in a mile. How many inches are there between Atlanta and Macon? Show your work for full credit. (5 points) ●

$84 \text{ miles} * (1760 \text{ yards} / 1 \text{ mile}) = 147,840 \text{ yards} * (36 \text{ inches} / 1 \text{ yard}) = 5,322,240 \text{ inches}$

2. Adrian is visiting his brother, who is studying abroad in Belgium. One dollar will buy 0.75 euros. Adrian buys a train ticket for \$90 euros. How much does this ticket cost in dollars? (5 points) ● $90 \text{ euros} * (1 \text{ dollar} / 0.75 \text{ euros}) = 120 \text{ euros}$

3. Jack earns 5 dollars a week by doing yard work for his neighbor. If he saves all the money he earns, how much will he have accumulated in 2 ½ years? (5 points) ●

$5 * 130 \text{ weeks} = 650$

4. Solve the following problems (1 point each, 1 extra point if all four are correct) ● ●

a) $88 * \frac{1}{4} * 0.5 = 11$

b) $.25 / .125 = 2$

c) $12345 / 5 = 2,469$

d) $2^5 = 32$

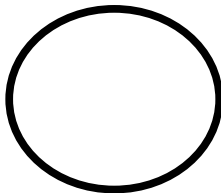
5. Sarah has saved \$153. She wants to buy an ipod that costs \$145 plus tax. Tax is 7%.

What is the cost of the ipod with tax? 155.15 (3 points)

Has she saved enough? No Show your work (2 point) ● ●

6. Color in $\frac{1}{3}$ of $\frac{1}{2}$ of $\frac{1}{2}$ of the circle below. What's the corresponding fraction? (5 points)

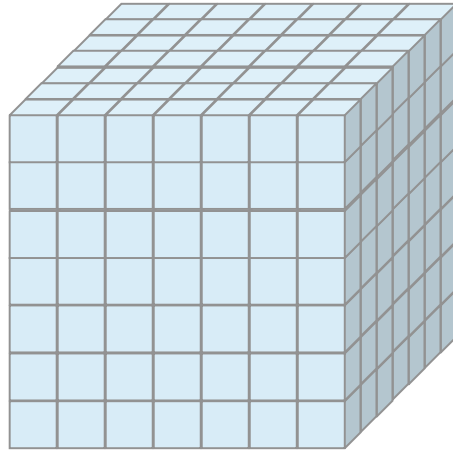
● ●



$$\frac{1}{3} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{12}$$

7. How many blocks were used to make the following solid cube? (5 points) ●●

$$7 \times 7 \times 7 = 343$$



8. Savannah is out hiking. Starting at the first mile marker, at every mile along the trail the trail branches into three trails and Savannah has to choose which path to take. After she has gone $7\frac{1}{2}$ miles, how many trails has Savannah had to choose from? Show your work for full credit. (5 points) ●●

$$21$$

9. Due to the cooler weather, Tommy bought a sweater and a winter coat recently for \$84. The coat costs 5 times as much as the sweater. What was the price difference between the two items? (5 points) ●●●

$$\text{Sweater} + 5 \times \text{Sweater} = 84; \text{Sweater} = 14, \text{coat} = 70, \text{difference} = 56$$

10. What are the next two numbers in the sequence: 2, 3, 5, 7, 11, 13, ____, ____
(2 points each, extra 1 point if both are correct) ●●●

$$17, 19 \text{ (prime numbers)}$$