

# 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 5 ~ Answers

(50 points total; 10 points deducted if late)

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

- Solve each problem. (1 point each, 1 extra point if all four are correct. Show work.) ●
  - $3^2 \times 3 = \underline{27}$
  - $3^2 + 3 = \underline{12}$
  - $3.3 + .06 = \underline{3.36}$
  - $4 \times .75 = \underline{3}$
- Round 14.506 to the place specified below: (1 point each, 1 extra point if both are correct) ●
  - ten:  $\underline{10}$
  - one:  $\underline{15}$
  - tenth:  $\underline{14.5}$
  - hundredth:  $\underline{14.51}$
- Solve each problem. (1 point each, 1 extra point if all correct. Show work.) ●●
  - $1/3 \times 2/3 = \underline{2/9}$
  - $5/4 \times 1/2 = \underline{5/8}$
  - $1/2 \times 1/2 = \underline{1/4}$
  - $1/2 \times 1/3 = \underline{1/6}$
- Solve each problem. (2 points each, 1 extra point if both are correct) ●●
  - $4 \times 18 / 8 + 140 - 7 = \underline{142}$
  - $3^2 \times 11 - 222 / 2 + 333 \times 2 = \underline{654}$

5. How many 2-character codes consisting of a letter in the 1<sup>st</sup> position and a digit in the 2<sup>nd</sup> position are there? (For example: A3, B7 etc.)  **$26 \times 10 = 260$**
6. How many 3-digit odd numbers are there?  **$50 \times 9 = 450$**
7. David's back yard is 100 feet by 100 feet. The yard has a 3-foot wide gravel border inside the yard's perimeter. The rest of the yard is planted with grass. How large is the grassy area in square feet?  **$94 \times 94 = 8836$**
8. Which one is bigger: two-thirds of three tenths or one half of one third.  
 **$2/3 \times 3/10 = 1/5$ ,  $1/2 \times 1/3 = 1/6$ , two-thirds of three tenth is bigger.**
9. Dog runs around the backyard 88 times. If each lap takes 15 seconds, how many minutes does the run take? **4 laps is one minute.  $88/4 = 22$  minutes.**
10. You and your brother are playing a card game. You draw a card from a well-shuffled deck of 52 cards. If you draw a face card, an ace, or any heart, you win. If you draw any other card, your brother wins. ●●●
- Of the 52 cards in the deck, how many would you win with? In other words, how many are face cards, aces, or hearts? (3 points) **25**
- Who has the best chance of winning? (2 points) **your brother**