

**Math Tips, Tricks, Mental Calculations – Practice Sheet of Mystery and Wonder (Week 8)**

1. $8,000 \cdot 400$
2. $550,000 \div 110$
3. $120,000 \cdot 0.03$
4. $36,000 \div 0.4$
5. $800,000 \cdot 0.008$
6. $12,000,000 \cdot 0.0009$
7. Convert 57.5% to a decimal and a fraction.
8. Convert $\frac{23}{25}$ to a decimal and a percent.
9. (a) $72 \cdot 9$ (b) $7,200 \cdot 0.9$
10. (a) Find 80 percent of 1,100. (b) Find 54 percent of 30,000.
11. What number is 45 percent of 600?
12. 28 percent of what number is 56?
13. 60 is what percent of 250?
14. Fred drove the van 77,000 miles over 110 days. How many miles, on average, did he drive per day?
15. Daphne meddled in 0.06 of the 8,000 mysteries. How many mysteries did she meddle in?
16. Velma captured $\frac{3}{20}$ of the criminals. (a) Convert this to a decimal. (b) What percent did Velma capture?
17. What is the total cost of a box of dog snacks for a Great Dane, if the box costs \$28, and sales tax is 7%?
18. Shaggy didn't do his Math Tips & Tricks assignments each day. He then passed out and hit his head on the floor, then got a 47.5% on his quiz. Convert this percent to a decimal and to a fraction (reduce it!).
19. The ghost could only eat 28 percent of the 4,000 special snacks he prepared. How many did he eat?
20. Frank's restaurant bill came to \$29.84. How much should he tip the waiter if he wants to tip 15 percent?



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1. 3,200,000
2. 5,000
3. 3,600
4. 90,000
5. 6,400
6. 10,800
7. .575; $575/1000 \rightarrow 23/40$ (reduced)
8. .92; 92%
9. (a) 648 (b) 6,480
10. (a) 880 (b) 16,200
11. 270
12. 200
13. 24%
14. 700
15. 480
16. 15%; .15
17. \$29.96
18. .475; $475/1000 \rightarrow 19/40$ (reduced)
19. 1,120
20. \$4.50 (when \$29.84 is rounded up to \$30)