

0.3d Homework: Solving Problems Multi-Digit Decimals

Directions: Perform each indicated operation.

1. $0.6 + 2.633$	2. $5.13 - 1.356$	3. $17.4(0.23)$	4. $4.45 \div 0.005$
5. Add 26.53, 1.6, and 340	6. Find the difference of 324.05 and 9.623	7. Find the product of 1.2 and 822.15	8. What is the quotient of 42.05 and 0.022?
9. $9.43 - 0.18$	10. $1.01(6.2)$	11. 0.47×3.01	12. $4.192 + 1.255$
13. $9.2 \div 0.375$	14. $500 \div 3.2$	15. $41.3 + 0.28 - 14.005$	16. $2500 - 2350.006$

Solve each problem

**Problems 19 and 20 are Illustrative Mathematics Tasks*

19. Jayden has \$20.56. He buys an apple for 79 cents and a granola bar for \$1.76.

- a. How much money did Jayden spend?

- b. How much money does Jayden have now?

20. Seth wants to buy a new skateboard that costs \$167. He has \$88 in the bank.

- a. If he earns \$7.25 an hour pulling weeds, how many hours will Seth have to work to earn the rest of the money needed to buy the skateboard?

- b. Seth wants to buy a helmet as well. A new helmet costs \$46.50. Seth thinks he can work 6 hours on Saturday to earn enough money to buy the helmet. Is he correct?

- c. Seth's third goal is to join some friends on a trip to see a skateboarding show. The cost of the trip is about \$350. How many hours will Seth need to work to afford the trip?

21. You buy 2.8 pounds of apples and 1.375 pounds of pears. You hand the cashier a \$20 bill. How much change will you receive?



22. A box company makes a certain box in two sizes. The material used to make both boxes costs \$1.50 per square foot. Use the information below to answer each question

	Length	Width	Height
Box 1	15.5 cm	4.06 cm	3 cm
Box 2	10.85 cm	5 cm	3.48 cm

- a. What is the volume of each box?

- b. How much does a person save by choosing to make Box 2 instead of Box 1.

23. A car can travel 50.7 miles on 2 gallons of gasoline.

- a. How far can the car travel on 9.5 gallons of gasoline?

- b. A hybrid car can travel 68.4 miles on 2 gallons of gasoline. How much farther can the hybrid car travel on 9.5 gallons of gasoline?

24. Tickets to the school play cost \$5.25. The amount received from tickets sales is \$640.50. How many tickets were sold?