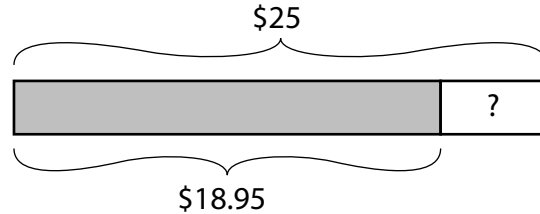


Mixed Decimal Addition, Subtraction, Multiplication, and Division Problems

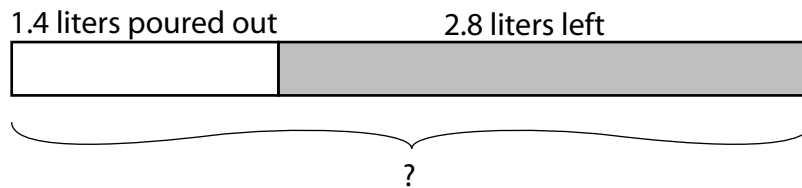
1. Jessica is saving for something that costs \$25. Right now, Jessica has \$18.95. How much more money does Jessica need to save? Show your work or describe your mental method.

Answer: _____



2. There was some snozzcumber juice in a container. After 1.4 liters of the snozzcumber juice were poured out, there were 2.8 liters left. How many liters of snozzcumber juice were in the container at first? Show your work.

Answer: _____



3. Calculate $\$20 - \7.89
4. Subtract $2.4 - 0.63$
5. At the store, you buy items that cost a total of \$13.96. You hand the clerk a \$20 bill. How much change will you receive?
- (a) Estimate the answer first. Show how you estimate. Answer: _____
- (b) Find the exact answer. Show your work. Answer: _____
6. Shauntay bought 2 packs of pens that cost \$2.98 each and 3 notebooks that cost \$0.99 each. The tax on her purchase was \$0.62. How much change did Shauntay get when she gave the clerk a \$20 bill?
- (a) Estimate the answer first. Show how you estimate. Answer: _____
- (b) Find the exact answer. Show your work. Answer: _____
7. There were 5 liters of liquid in a container. First, 3.2 liters were poured out. Then another 1.7 liters were poured in. How many liters of liquid were in the container then?
- (a) Estimate the answer first. Show how you estimate. Answer: _____
- (b) Find the exact answer. Show your work. Answer: _____

8. A pack of markers costs \$2.95. A pack of colored paper costs \$1.50 more than the pack of markers. How much do two packs of markers and two packs of colored paper cost all together?

(a) Estimate the answer first. Show how you estimate. Answer: _____

(b) Find the exact answer. Show your work. Answer: _____

9. At the store you purchase items that cost a total of \$7.98. How much change will you get from a \$20 bill?

(a) Estimate the answer first. Show how you estimate. Answer: _____

(b) Find the exact answer. Show your work. Answer: _____

10. For breakfast, Rodarius had cereal with 3.5 grams of fat and milk with 2.5 grams of fat. How many grams of fat did Rodarius have for breakfast? Show your work.

Answer: _____

11. Notebooks cost \$2.95 each. Asia has \$10. How many notebooks can Asia buy? Show your work.

Answer: _____

12. There were 3.2 liters of solution in a container. After 0.85 liters of the solution were poured out, how much was left? Show your work.

Answer: _____

13. A bag of Jolly Ranchers costs \$1.94. A bag of chocolates costs \$2.25. Mrs. Kazez buys a bag of Jolly Ranchers for her students and a bag of chocolates for herself. She pays \$0.12 in tax. How much change will she get from a \$10 bill?

(a) Estimate the answer first. Show how you estimate. Answer: _____

(b) Find the exact answer. Show your work. Answer: _____

14. One of the numbers below is the answer to 11×9.8 . Use rounding to explain how you can tell which answer makes sense.

1.078 10.78 107.8 1078

15. One of the numbers below is the answer to $13.84 \div 2$. Use rounding to explain how you can tell which number it is.

.692 6.92 69.2 692

16. (a) Why do we have to line up the decimal points when we subtract $1.7 - .85$?

(b) Do we line up the decimal points when we multiply decimals?

17. If there are 18.2 ounces of cereal in one box, how many ounces of cereal are in 6 boxes (of the same kind of cereal)? Show your work.

Answer: _____ Does your answer make sense? _____

18. If 3 pounds of apples cost \$4.15, how much does 1 pound of apples cost? Round your answer to the nearest cent. Show your work.

Answer: _____

19. Write story problems for each of the following. Solve each problem.

(a) 8×12.37

(b) $8 + 12.37$

(c) $12.37 - 8$

(d) $12.37 \div 8$

20. Shane had \$15.95. After Shane got some more money, he had \$19.25. How much money did Shane get? Show your work.

Answer: _____ Does your answer make sense? _____

21. There are 235 giant roaches in a box. Each roach weighs 5.5 grams. How much do all the roaches weigh together? Show your work.

Answer: _____ Does your answer make sense? _____

22. Cassandra has \$16.89. She wants to buy something that costs \$23.25. How much more money does Cassandra need? Show your work.

Answer: _____ Does your answer make sense? _____

23. Tevin has \$17.50. If he spends \$1.85, \$4.58, and \$7.29, how much will Tevin have left? Show your work.

Answer: _____ Does your answer make sense? _____

24. Mrs. Kazez gives her students 5 pencils every day for 180 days of school. If a pack of 8 pencils costs \$1, how much money will Mrs. Kazez spend on pencils for her students? Show your work.

25. If \$273 is divided equally among 11 people, how much will each person get?

26. Write a story problem for 5×1.85 . Write another story problem for $1.85 \div 5$. Solve both of your problems.

27. Solve the following problems mentally.

(a) $\$1.99 + \3.99

- (b) Agustin pays for a \$7.95 purchase with a \$10 bill. How much change does Agustin get?

- (c) There are 25 candies in each bag of candies. If you want to have 1000 candies, how many bags will you need?

28. Calculate to the hundredths place:

(a) $11 \overline{)44.88}$

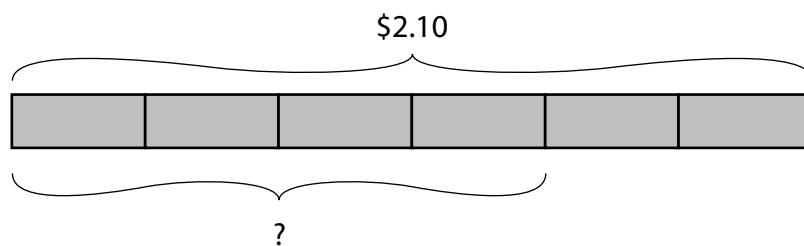
(b) $13 \overline{)3.3}$

(c) $12 \overline{)7.25}$

(d) $\overline{15)45.75}$

(e) $\overline{9)630.46}$

29. Calculate to the thousandths place: $\overline{25)75.125}$
30. A large bag of candies weighs 1.75 pounds. How much do 8 of those bags of candies weigh? Show your work.
31. A bag of 8 candies weighs 1.75 ounces. How much does one of those candies weigh? (All the candies are the same.) Calculate the answer to the hundredths place. Show your work.
32. A bag of your favorite candy costs \$3. How many of those bags of candy can you buy if you have \$22.45? Will you have any money left?
33. (Also for M6A1) Taryn needs 4 liters of soda for a party. The 2 liter bottles cost \$2.79 each. The 1 liter bottles cost \$0.99 each. Which bottles should Taryn buy and how much will the soda cost her in all?
34. (Also for M6A1) At the store, one box of laundry detergent costs \$5.24 and washes 40 loads of laundry. Another box of the same kind of laundry detergent costs \$12.78 and washed 80 loads of laundry. If you have enough money to buy either box of detergent, and if you will wash 80 loads of laundry eventually, what should you buy? Explain your answer.
35. (Also for M6A1) What if the 40 load box of detergent in the previous problem costs \$7.24 instead of \$5.24 and the 80 load box costs \$12.78. What should you buy? Explain your answer.
36. (Also for M6A1 and M6A2) If 6 cans of soda cost \$2.10, how much should 4 cans of soda cost? Show your work.



37. (Also for M6A1 and M6A2) If 5 pounds of apples cost \$6.75, how much should 3 pounds of apples cost? Show your work.

