

Adding and Subtracting Decimals: practice solutions, Grade 5 – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Estimate by rounding



a) $7 + 3 = 10$. b) $9 + 3 = 12$. c) $16 - 8 = 8$. d) $21 - 4 = 17$.

The exact answers are **10.0**, **12.1**, **7.3** and **16.8**, all close to the estimates.

2 Add decimals



a) $3.4 + 5.2 = 8.6$. b) $12.7 + 0.8 = 13.5$ (tenths: $7 + 8 = 15$, carry 1). c) $4.25 + 3.31 = 7.56$. d) $0.46 + 0.38 = 0.84$ (hundredths: $6 + 8 = 14$, carry 1; tenths: $4 + 3 + 1 = 8$).

3 Subtract decimals



a) $8.9 - 3.4 = 5.5$. b) $7.5 - 2.8 = 4.7$ (borrow: $15 - 8 = 7$, $6 - 2 = 4$). c) $9.86 - 4.32 = 5.54$. d) $6.47 - 0.25 = 6.22$.

4 Set it up vertically



Write **5.2** as **5.20** and line up the points:

14.63 on top, **5.20** below. Hundredths: $3 + 0 = 3$. Tenths: $6 + 2 = 8$. Ones: $4 + 5 = 9$.

Tens: **1**.

$$5.2 + 14.63 = 19.83.$$

5 True or false?



a) True: **35** tenths + **24** tenths = **59** tenths, which is **5.9**.

b) False: **7** tenths + **5** tenths = **12** tenths = **1.2**, not **0.12**.

c) True: $6.3 - 0.3 = 6.0 = 6$.

6 Pencil case



a) $4.75 + 2.30 = 7.05$. He spends \$7.05.

b) $10.00 - 7.05 = 2.95$. He gets \$2.95 back.

7 Placeholder zeros



a) Write **6.4** as **6.40**: $6.40 + 2.95 = 9.35$.

b) Write **8** as **8.0**: $8.0 - 3.6 = 4.4$.

8 Estimate, then calculate



Estimate: $24 + 15 = 39$.

Exact: $23.78 + 15.46 = 39.24$.

The exact sum is close to the estimate, so the answer is reasonable.

9

Regrouping practice

a) $30.50 - 12.74 = 17.76$.

b) $5.03 - 2.48 = 2.55$.

c) $100.00 - 46.37 = 53.63$.

Check with addition: $17.76 + 12.74 = 30.50$, $2.55 + 2.48 = 5.03$,

$53.63 + 46.37 = 100.00$.

10

Three addendsWrite every number with two decimal places: $4.50 + 12.75 + 0.08$.

$4.50 + 12.75 = 17.25$, then $17.25 + 0.08 = 17.33$.

11

Find the mistake

Sam lined up the right-hand digits (the 6 and the 5) instead of the decimal points. He added $36 + 245 = 281$.

Correct setup: $3.60 + 2.45 = 6.05$. A quick estimate $4 + 2 = 6$ would have shown that **2.81** was far too small.

12

Missing numbers

a) Subtract: $11.05 - 7.40 = 3.65$. Check: $7.4 + 3.65 = 11.05$.

b) Add: $6.90 + 4.38 = 11.28$. Check: $11.28 - 4.38 = 6.90$.

13

Rainfall

a) $1.35 + 0.80 = 2.15$, then $2.15 + 2.07 = 4.22$. The total is 4.22 inches.

b) $2.07 - 0.80 = 1.27$. Wednesday had 1.27 inches more.

14 Cutting a board



Pieces cut: $0.85 + 1.20 = 2.05$ meters.

Left: $2.50 - 2.05 = 0.45$. The piece left is 0.45 meter (45 centimeters).

15 Greater than 10?



a) $4.90 + 5.20 = 10.10$, greater than 10.

b) $3.75 + 6.20 = 9.95$, less than 10.

c) $5.08 + 4.93 = 10.01$, greater than 10.

16 Lunch money



a) $6.45 + 2.79 = 9.24$, then $9.24 + 1.35 = 10.59$. The total is \$10.59.

b) $20.00 - 10.59 = 9.41$. His change is \$9.41.

c) $9.50 - 9.41 = 0.09$. No, he is \$0.09 short.

17 Perimeter of a triangle



The perimeter is the sum of the three sides: $3.45 + 4.80 + 6.15$.

$3.45 + 4.80 = 8.25$, then $8.25 + 6.15 = 14.40$.

The perimeter is 14.4 cm.

18 Swim meet



a) The fastest is Ava (28.67 s) and the slowest is Ben (31.2 s). $31.20 - 28.67 = 2.53$ seconds.

b) $28.67 + 31.20 = 59.87$, then $59.87 + 29.90 = 89.77$ seconds.

19 Digit puzzle



The ones digits are worth the most, so for the greatest sum put 7 and 5 in the ones places and 3 and 1 in the tenths places: $7.3 + 5.1 = 12.4$ (or $7.1 + 5.3 = 12.4$).

For the least sum put 1 and 3 in the ones places and 5 and 7 in the tenths places:

$$1.5 + 3.7 = 5.2.$$

Greatest sum: 12.4. Least sum: 5.2.

20 Savings account



After the shoes: $42.50 - 18.75 = 23.75$.

After walking dogs: $23.75 + 12.40 = 36.15$.

After the gift: $36.15 - 9.95 = 26.20$.

Nina has \$26.20.

21 Fuel tank



Now in the tank: $3.75 + 6.80 = 10.55$ gallons.

Room left: $14.50 - 10.55 = 3.95$.

The tank has room for 3.95 more gallons.



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