

Multi-Digit and Decimal Operations: math practice, Grade 6 – download the PDF

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Multiplying whole numbers



Compute with the standard algorithm.

a. 52×36

b. 407×23

2 Exact long division



Divide.

a. $936 \div 12$

b. $1,275 \div 25$

c. $2,016 \div 42$

3**Adding decimals**

Add, lining up the decimal points.

a. $6.45 + 3.8$

b. $12.07 + 0.93$

c. $0.506 + 2.74$

4**Subtracting decimals**

Subtract.

a. $9.5 - 4.27$

b. $15 - 6.08$

c. $3.004 - 1.75$

5**Products with decimals**

Compute each product.

a. 0.6×0.7

b. 4×0.35

c. 1.5×0.2

6**Dividing decimals by whole numbers**

Divide.

a. $8.4 \div 4$

b. $0.36 \div 6$

c. $7.5 \div 5$

7 Quick estimate of a sum



Round each number to the nearest whole number to estimate $4.9 + 8.1 + 2.95$. Then find the exact sum.

8 Long division with a remainder



Compute $4,817 \div 23$ and write the answer as a quotient and a remainder. Then check your work.

9 Seats in a theater



A theater has 38 rows with 46 seats in each row. How many seats are there in all?

10 Products of two decimals



Compute.

- a. 3.4×2.6
- b. 0.75×1.2
- c. 5.08×0.4

11 Dividing by a decimal



Compute.

- a. $6.3 \div 0.9$
- b. $4.56 \div 0.12$
- c. $1.7 \div 0.5$

12 True or false?

Decide whether each statement is true or false, and justify.

- a. $9.8 \div 0.1 = 0.98$
- b. $0.4 \times 0.5 = 0.2$
- c. $7.2 + 0.35 = 7.55$
- d. Multiplying a number by 0.1 makes it larger.

13 Trading card shopping

Mia buys 3 packs of trading cards at 4.75 dollars each and a binder for 6.30 dollars. She pays with a 25-dollar bill. How much change does she get?

14 Find the error

A student writes $2.4 \times 1.5 = 0.36$. Explain why this cannot be right by estimating, then find the correct product.

15 Dividing with decimals in the quotient

Compute.

- a. $14.7 \div 0.6$
- b. $52 \div 0.8$
- c. $3 \div 8$

16 Bakery flour

A baker uses 0.35 kg of flour for each loaf and bakes 18 loaves. Flour is sold in bags of 2.5 kg. How many bags must she buy?

17 Training for a race

Omar runs 1.35 miles a day from Monday to Saturday and 2.8 miles on Sunday. His weekly goal is 12 miles. How many more miles does he need to reach the goal?

18 Best unit price

A 12-can pack of soda costs 8.40 dollars and an 18-can pack costs 12.06 dollars. Which pack is the better buy per can?

19 Estimate, then compute

Estimate 38.7×5.12 by rounding, then compute the exact product. Is your estimate close?

20 School fundraiser

A school has 126 students and each sells 14 boxes of cookies at 3.25 dollars per box. Each box costs the school 1.80 dollars. Find the total money collected, the total cost, and the profit.

21 Mystery numbers

Find each mystery number.

- When I multiply it by 0.25, I get 6.5.
- When I divide it by 0.4, I get 12.5.
- When I add 2.35 to it, I get 5.1.



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