

Multi-Digit Multiplication: math practice, Grade 5 – download the PDF

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

1 Reading exponents

★ ★ ★

- a) Write $10 \times 10 \times 10$ as a power of 10.
- b) Write 10^5 as a number.
- c) How many zeros does 10^2 have?

2 Shifting digits

★ ★ ★

Compute: a) 53×10 b) 53×100 c) $53 \times 1,000$ d) 8×10^4

3 Multiples of 10

★ ★ ★

Find each product using a basic fact: a) 6×40 b) 70×50 c) 300×8 d) 20×600

4 Quick estimate

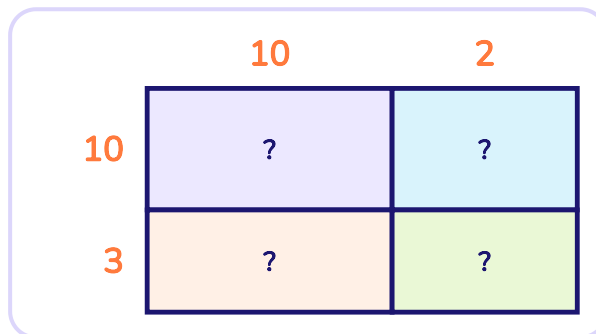


Estimate 48×31 by rounding each factor to the nearest ten. Then say whether 1,488 is a reasonable exact answer.

5 Fill in an area model



Use the area model to compute 12×13 . Write $12 = 10 + 2$ and $13 = 10 + 3$.



Find the four partial products and add them.

6 Two partial products



Compute 23×14 by finding 23×4 and 23×10 , then adding them.

7 Pencil boxes



A school art room has 12 boxes of colored pencils. Each box holds 24 pencils. How many pencils are there in all?

8 Standard algorithm practice



Use the standard algorithm to compute 36×27 . Estimate first.

9 Regrouping twice



Compute 58×43 with the standard algorithm.

10 Estimate, then calculate



a) Estimate 73×28 . b) Find the exact product. c) Is the exact product close to the estimate?

11 Find the mistake



Maya wrote $45 \times 32 = 225$, because she computed $45 \times 2 = 90$, then $45 \times 3 = 135$, and added $90 + 135$. What went wrong? Give the correct product.

12 Area model with three parts



Use an area model to compute 214×32 . Split 214 into $200 + 10 + 4$ and 32 into $30 + 2$.

	200	10	4
30	?	?	?
2	?	?	?

Find all six partial products and add them.

13 Theater seats



A theater has 28 rows. Each row has 35 seats. How many seats does the theater have?

14 True or false?



Decide whether each statement is true or false. Justify your answer.

a) $10^4 = 40$ b) $60 \times 500 = 30,000$ c) $25 \times 40 = 1,000$

15 Big standard algorithm

Compute 472×36 with the standard algorithm. Estimate first.

16 Zero in the middle

Compute 805×47 . Explain what happens with the zero in 805.

17 Missing factors

Find the missing number: a) $40 \times \underline{\quad} = 28,000$ b) $\underline{\quad} \times 60 = 4,800$ c) $9 \times \underline{\quad} = 63,000$

18 Juice orders

A school orders 36 cases of juice. Each case holds 24 bottles. A second order adds 18 more cases. a) How many bottles are in the first order? b) How many bottles are in the second order? c) How many bottles in total? d) Check by multiplying 54 cases at once.

19 Which is greater?

Which product is greater, 38×52 or 41×49 ? Both are close to 2,000, so you must calculate exactly.

20 Powers of 10 in a product

Compute $3,600 \times 200$ by rewriting it as 36×2 times a power of 10.

21

Factory jars

A factory fills 125 jars of jam each hour. It runs 16 hours a day for 24 days. How many jars does it fill in all? Estimate first.

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