

Dividing Multi-Digit Whole Numbers: math practice, Grade 4 – download the PDF

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

1 Sharing stickers

★ ★ ★

Zoe has 36 stickers. She shares them equally among 4 friends. How many stickers does each friend get?

2 Fact family

★ ★ ★

Use $7 \times 9 = 63$ to write three more facts about the same numbers.

3 Tens and hundreds

★ ★ ★

Use a basic fact to find each quotient.

a. $180 \div 3$

b. $560 \div 7$

c. $2,400 \div 8$

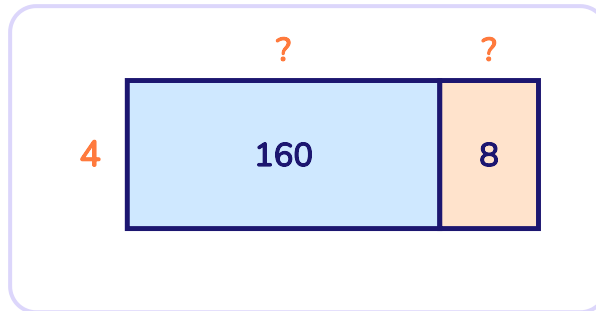
d. $3,500 \div 5$

e. $4,800 \div 6$

4 Fill the area model



The area of this rectangle is 168 square inches and its width is 4 inches. The two parts have areas 160 and 8. Find the two missing lengths and the length of the whole rectangle.



5 Two partial quotients



Find $96 \div 3$. Start by taking away 3×30 , then finish the job.

6 First long divisions



Use long division.

a. $468 \div 2$

b. $639 \div 3$

c. $905 \div 5$

7 True or false?



Say whether each statement is true or false. Explain.

- a. $3,000 \div 5 = 600$
- b. $450 \div 9 = 5$
- c. Since $7 \times 6 = 42$, then $42 \div 6 = 7$.
- d. $25 \div 4 = 6 \text{ R } 1$
- e. $31 \div 5 = 5 \text{ R } 6$

8 Estimate, then divide



A farm stand has 623 apples to put in 7 equal baskets.

- a. Estimate the number of apples per basket with compatible numbers.
- b. Find the exact number.

9 Quotients with remainders



Divide and write the answer with a remainder.

- a. $47 \div 6$
- b. $92 \div 8$
- c. $245 \div 9$
- d. $1,000 \div 7$

10 Spot the mistake



Leo says that $538 \div 6 = 88 \text{ R } 10$. He checked: $6 \times 88 + 10 = 538$. Is his answer correct? Explain, then give the right answer.

11 Vans for the field trip



83 students go to a science museum. Each van carries 9 students. How many vans are needed?

12 Ribbon pieces

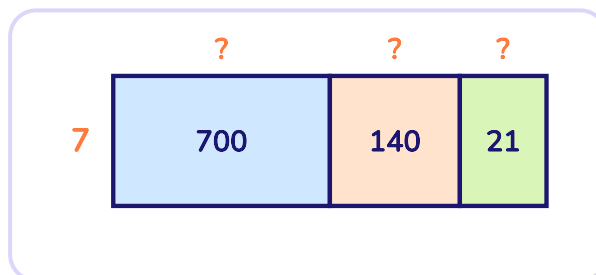


A roll of ribbon is 275 inches long. Mia cuts pieces that are 8 inches long. How many full pieces can she cut, and how much ribbon is left over?

13 Three-part area model



The area of this rectangle is 861 square feet and its width is 7 feet. The parts have areas 700, 140 and 21. Find the length of each part and the length of the rectangle.



14 Jumps on a number line



Mateo is solving $47 \div 5$ with jumps of 5 on a number line starting at 0.



How many full jumps of 5 does he make before he cannot jump again without passing 47? What is the remainder? Write the division sentence.

15 A zero in the quotient

Use long division. Be careful with the zeros.

a. $3,224 \div 8$

b. $2,105 \div 7$

16 Apples, crates and trucks

An orchard picks 1,248 apples. Each crate holds 8 apples. The crates are then loaded equally onto 4 trucks. How many crates does each truck carry?

17 Which quotient is larger?

Without using long division, decide which quotient is larger: $2,700 \div 9$ or $3,500 \div 7$. By how much?

18 Find the dividend

Find the missing number in each case.

a. $\square \div 6 = 47 \text{ R } 5$

b. $\square \div 7 = 52 \text{ R } 6$

19 Error analysis

Nina divides $1,236 \div 4$ and writes 39. Use an estimate to show that her answer cannot be right, then find the correct quotient.

20

Bags of beads

A craft store has 1,000 beads. They are sold in bags of 6 beads.

- How many full bags can the store make, and how many beads are left over?
- How many bags would it need to hold every bead?

21

Two ways to solve

Write a short word problem for $245 \div 5$. Then solve it with partial quotients and with an area model.

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