

Dividing Whole Numbers: math practice, Grade 5 – download the PDF

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

1 Mental division with zeros



Find each quotient without a calculator.

- a. $3,600 \div 9$
- b. $540 \div 90$
- c. $2,800 \div 40$
- d. $630 \div 30$
- e. $45,000 \div 50$

2 Estimate with compatible numbers



Estimate each quotient by choosing a compatible number.

- a. $2,415 \div 8$
- b. $5,987 \div 3$
- c. $4,130 \div 7$
- d. $812 \div 4$

3 Partial quotients with 848

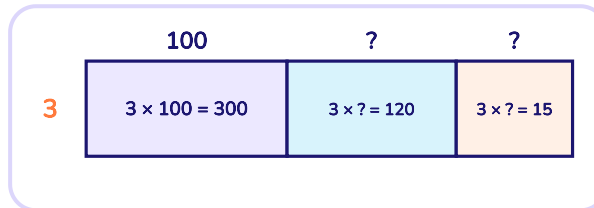


Use partial quotients to find $848 \div 4$. Show each subtraction.

4 Complete the area model



Complete the area model to find $435 \div 3$.



5 Long division by 4



Use long division to find $1,296 \div 4$. Then check with multiplication.

6 Sticker sharing



Maya has 252 stickers. She shares them equally among 6 friends. How many stickers does each friend get?

7 True or false?



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

a. $4,200 \div 60 = 70$

b. $5,400 \div 90 = 600$

c. $7,350 \div 7 = 105$

8

A division with a remainder

Divide **3,457** by 6 and write the answer with a remainder. Then check.

9

A first 2-digit divisor

Use long division to find **$1,248 \div 24$** .

10

Area model with 22

Draw an area model to find **$902 \div 22$** . Use two pieces.

11

Trays of muffins

A cafe bakes 1,260 muffins and puts 15 muffins on each tray. How many trays does it fill?

12

Find the error

Two students made mistakes. Find each error and give the correct quotient.

a. Leo wrote **$3,000 \div 50 = 6$** .

b. Priya wrote **$9,072 \div 9 = 108$** .

13

Bags of rolls

A store has 275 rolls. Each bag holds 12 rolls. (a) How many full bags can be made? (b) How many rolls are left over?

14 Long division by 36

Find $7,848 \div 36$. Estimate first, then divide.

15 Cutting a rope

A rope 2,450 centimeters long is cut into 35 equal pieces. How long is each piece? About how many inches is that? (1 inch = 2.54 centimeters.)

16 Three questions, one remainder

Divide 83 by 6. Then answer each question using the result.

- a. A baker packs 83 cupcakes in boxes of 6. How many full boxes are there?
- b. 83 people go on a trip in vans that seat 6 people each. How many vans are needed?
- c. 83 dollars are shared equally among 6 cousins. How many whole dollars does each cousin get, and how many dollars are left?

17 Work backward from a quotient

A number is divided by 27. The quotient is 45 and the remainder is 13. What is the number? Show how you check your answer.

18 Estimate, then divide by 18

(a) Estimate $6,372 \div 18$. (b) Find the exact quotient. (c) Compare your two results.

19 Packs of pencils

A school ordered 4,860 pencils. They arrive in packs of 45. How many packs did the school order? Explain what happens in the tens place of the quotient.

20

Order without long division

Without doing long division, put these quotients in order from least to greatest, and explain your reasoning: $7,200 \div 60$, $7,200 \div 90$, $7,200 \div 80$.

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6 random questions, instant feedback.

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