

5.NBT.B.6 Dividing by 1-Digit Numbers

5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors

1. Find the value of a .

a. $a \div 5 = 64 \text{ r}4$ d. $153 \div 4 = 38 \text{ r}a$
 b. $501 \div 9 = a \text{ r}6$ e. $2,849 \div a = 316 \text{ r}5$
 c. $184 \div a = 26 \text{ r}2$ f. $a \div 7 = 1,300 \text{ r}2$

Solution:

- a. d.
 b. e.
 c. f.

2. The principal of an Elementary School needs to determine the size of classes from 3rd to 6th grade. He needs to use the student-classroom data in the table.

- a. How many students are there in each classroom in the 3rd grade? How many will be left over?
 b. How many students are there in each classroom in the 4th grade? How many will be left over?
 c. The principal decides that in 5th grade, leftover students will be added to class of the last classroom. How many students are there per classroom in 5th grade?
 d. The principal decides that in 6th grade, leftover students will be added to class of the last classroom. How many students are there per classroom in 6th grade?

Student-Classroom Data		
Grade	No. of students	No. of classrooms
3 rd	193	9
4 th	166	8
5 th	162	8
6 th	149	7

Solution:

- a.
 b.
 c.
 d.

3. Which of the following division statements is false?

A. $2,906 \div 8 = 363 \text{ r}4$ C. $4,720 \div 6 = 786 \text{ r}4$
 B. $3,264 \div 9 = 362 \text{ r}6$ D. $7,175 \div 9 = 797 \text{ r}2$

Solution:

4. Anny went to the cloth store and purchased 7 shirts. She gave \$90 to the cashier and get \$5 and some change back. What was the likely price of each shirt?

A. \$12.99 C. \$14.99
 B. \$13.99 D. \$15.99

Solution:

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Answer Key

5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors

1. Find the value of a .

- a. $a \div 5 = 64 \text{ r}4$ d. $153 \div 4 = 38 \text{ r}a$
 b. $501 \div 9 = a \text{ r}6$ e. $2,849 \div a = 316 \text{ r}5$
 c. $184 \div a = 26 \text{ r}2$ f. $a \div 7 = 1,300 \text{ r}2$

Solution:

- a. **324** d. **1**
 b. **55** e. **9**
 c. **7** f. **9,102**

2. The principal of an Elementary School needs to determine the size of classes from 3rd to 6th grade. He needs to use the student-classroom data in the table.

- a. How many students are there in each classroom in the 3rd grade? How many will be left over?
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Student-Classroom Data		
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6 th	149	7

Solution:

- a. **21; 4 students will be left over**
 b. **20; 6 students will be left over**
 c. **22 students per class for the last classroom; 20 students per class for the first 7 classrooms**
 d. **23 students per class for the last classroom; 21 students per class for the first 6 classrooms**

3. Which of the following division statements is false?

- A. $2,906 \div 8 = 363 \text{ r}4$ C. $4,720 \div 6 = 786 \text{ r}4$
 B. $3,264 \div 9 = 362 \text{ r}6$ D. $7,175 \div 9 = 797 \text{ r}2$

Solution: **A**

4. Anny went to the clothing store and purchased 7 shirts. She gave \$90 to the cashier and get \$5 and some change back. What was the likely price of each shirt?

- A. \$12.99 C. \$14.99
 B. \$13.99 D. \$15.99

Solution: **A**