



# WORKSHEET 13

## Short Division & Remainders

### Year 5 Mathematics — Operations Strand

Australian Curriculum v9.0 — AC9M5N07

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Section 1: Fluency - Short Division

**Question 1:** Solve

$$456 \div 3$$

using the short division method.

Answer: \_\_\_\_\_

**Question 2:** Calculate

$$1,248 \div 4$$

Answer: \_\_\_\_\_

**Question 3:** Solve

$$735 \div 5$$

Answer: \_\_\_\_\_

**Question 4:** Calculate

$$2,184 \div 7$$

Answer: \_\_\_\_\_



**Question 5:** Solve

$$963 \div 9$$

Answer: \_\_\_\_\_

**Question 6:** Calculate

$$1,536 \div 6$$

Answer: \_\_\_\_\_

**Question 7:** Solve

$$848 \div 8$$

Answer: \_\_\_\_\_

**Question 8:** Calculate

$$924 \div 4$$

Answer: \_\_\_\_\_



### Division Dynamo!

“You’re Dividing Like a Champion!”

*Joke Time:* Why was 6 afraid of 7? Because 7, 8, 9!

## Section 2: Reasoning - Writing Remainders

**Question 9:** Solve

$$25 \div 4$$

2



. Write the answer with a remainder (e.g., 6 r 1).

Answer: \_\_\_\_\_

**Question 10:** Solve

$$10 \div 4$$

. Write the answer as a decimal.

Answer: \_\_\_\_\_

**Question 11:** Calculate

$$47 \div 6$$

. Write the answer with a remainder.

Answer: \_\_\_\_\_

**Question 12:** Solve

$$53 \div 8$$

. Write the answer with a remainder.

Answer: \_\_\_\_\_

**Question 13:** Calculate

$$29 \div 5$$

. Write the answer as a decimal.

Answer: \_\_\_\_\_

**Question 14:** Solve

$$100 \div 7$$

. Write the answer with a remainder.



Answer: \_\_\_\_\_

**Question 15:** Calculate

$$83 \div 9$$

. Write the answer with a remainder.

Answer: \_\_\_\_\_

**Question 16:** Solve

$$15 \div 6$$

. Write the answer as a decimal.

Answer: \_\_\_\_\_



## Remainder Rockstars!

“You’re Mastering Remainders!”

*Joke Time:* What did zero say to eight? Nice belt!

## Section 3: Challenge - Thinking Backwards

**Question 17:** A number is divided by 5. The answer is 12 with a remainder of 2. What was the original number?

Answer: \_\_\_\_\_

**Question 18:** When I divide a number by 7, I get 8 with a remainder of 3. What is the number?

Answer: \_\_\_\_\_



**Question 19:** A number divided by 6 gives 15 r 4. Find the original number.

Answer: \_\_\_\_\_

**Question 20:** Complete the pattern:

$$560 \div 7 = 80$$

$$630 \div 7 = 90$$

$$700 \div 7 = ?$$

Answer: \_\_\_\_\_

**Question 21:** The quotient is 23, the divisor is 4, and the remainder is 1. What is the dividend?

Answer: \_\_\_\_\_

**Question 22:** Fill in the missing number:

$$? \div 9 = 34 \text{ r } 5$$

Answer: \_\_\_\_\_

**Question 23:** A number divided by 8 equals 19 r 6. What is the number?

Answer: \_\_\_\_\_

**Question 24:** If

$$? \div 12 = 25 \text{ r } 7$$

, find the missing number.



Answer: \_\_\_\_\_

## Challenge Champion!



**“You’ve Conquered Division!”**

*Joke Time:* Why was the math book so sad? It had too many problems!

**Excellent work! Check your answers on the next page.**





# WORKSHEET 13

## ANSWER KEY

### Section 1: Fluency - Short Division

1. 152      2. 312      3. 147      4. 312  
5. 107      6. 256      7. 106      8. 231

### Section 2: Reasoning - Writing Remainders

9. 6 r 1      10. 2.5      11. 7 r 5      12. 6 r 5  
13. 5.8      14. 14 r 2      15. 9 r 2      16. 2.5

### Section 3: Challenge - Thinking Backwards

17. 62 (because

$$5 \times 12 + 2 = 62$$

)

18. 59 (because

$$7 \times 8 + 3 = 59$$

)

19. 94 (because

$$6 \times 15 + 4 = 94$$

)

20. 100

21. 93 (because

$$4 \times 23 + 1 = 93$$

)

22. 311 (because

$$9 \times 34 + 5 = 311$$

)

23. 158 (because

$$8 \times 19 + 6 = 158$$

)

24. 307 (because

$$12 \times 25 + 7 = 307$$

)



# WORKSHEET 14

## Interpreting Remainders

### Year 5 Mathematics — Operations Strand

Australian Curriculum v9.0 — AC9M5N07

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Section 1: Fluency - Division by 10 and 100

**Question 1:** Calculate

$$4,500 \div 100$$

Answer: \_\_\_\_\_

**Question 2:** What is

$$320 \div 10$$

?

Answer: \_\_\_\_\_

**Question 3:** Solve

$$8,700 \div 100$$

Answer: \_\_\_\_\_

**Question 4:** Calculate

$$750 \div 10$$

Answer: \_\_\_\_\_



**Question 5:** What is

$$1,200 \div 100$$

?

Answer: \_\_\_\_\_

**Question 6:** Solve

$$960 \div 10$$

Answer: \_\_\_\_\_

**Question 7:** Calculate

$$6,300 \div 100$$

Answer: \_\_\_\_\_

**Question 8:** What is

$$540 \div 10$$

?

Answer: \_\_\_\_\_



### Division Dynamo!

“You’re a Place Value Pro!”

*Joke Time:* Why did the student do multiplication on the floor? The teacher told them not to use tables!

## Section 2: Reasoning - Problem Solving with Remainders



**Question 9:** A bus holds 20 students. There are 45 students going on a trip. How many buses are needed? Explain why you rounded your answer.

Answer: \_\_\_\_\_

**Question 10:** There are 67 pencils to be shared equally among 8 students. How many pencils does each student get? How many are left over?

Answer: \_\_\_\_\_

**Question 11:** A rope is 125 cm long. It is cut into pieces that are 15 cm each. How many complete pieces can be cut?

Answer: \_\_\_\_\_

**Question 12:** There are 89 lollies. They are put into bags of 6. How many full bags can be made? How many lollies are left over?

Answer: \_\_\_\_\_

**Question 13:** A car can hold 5 people. There are 38 people who need a ride. How many cars are needed?

Answer: \_\_\_\_\_

**Question 14:** A theater has 150 seats arranged in rows of 12. How many complete rows can be filled?

Answer: \_\_\_\_\_

**Question 15:** There are 75 students and each table seats 8 students. How many tables are needed for everyone to sit?



Answer: \_\_\_\_\_

**Question 16:** A baker made 95 cupcakes. He packs them in boxes of 10. How many full boxes does he have? How many cupcakes are left?

Answer: \_\_\_\_\_



## Remainder Rockstars!

“You’re Solving Real Problems!”

*Joke Time:* What’s a math teacher’s favorite season?  
Sum-mer!

## Section 3: Challenge - Real-World Division

**Question 17:** A baker has 53 cookies. He puts them into bags of 5. How many full bags can he make? How many cookies are left over?

Answer: \_\_\_\_\_

**Question 18:** A school has 156 students. They need to form teams of 12 for sports day. How many complete teams can be formed? How many students will not be in a complete team?

Answer: \_\_\_\_\_

**Question 19:** A farmer has 245 eggs. Egg cartons hold 12 eggs each. How many cartons can be completely filled? If he wants to pack all eggs, how many cartons does he need in total?

Answer: \_\_\_\_\_



**Question 20:** A charity collected \$387. They want to donate equal amounts to 9 different organizations. How much money will each organization receive?

Answer: \_\_\_\_\_

**Question 21:** There are 1,000 marbles to be divided equally among 8 jars. How many marbles go in each jar? How many marbles are left over?

Answer: \_\_\_\_\_

**Question 22:** A concert hall has 15 rows. There are 378 people attending. If they sit equally in each row, how many people sit in each row? (Express as a whole number with remainder)

Answer: \_\_\_\_\_

**Question 23:** A pizzeria cuts pizzas into 8 slices. They need to serve 95 people, with each person getting one slice. How many pizzas must they make?

Answer: \_\_\_\_\_

**Question 24:** Challenge Problem: A number when divided by 13 gives a quotient of 18 and a remainder of 7. If this same number is divided by 6, what will be the quotient and remainder?

Answer: \_\_\_\_\_



## Challenge Champion!



“You’re a Real-World Problem Solver!”

*Joke Time:* How do you make seven even? Take away the 's'!

**Outstanding work! Check your answers on the next page.**





# WORKSHEET 14

## ANSWER KEY

### Section 1: Fluency - Division by 10 and 100

1. 45      2. 32      3. 87      4. 75  
5. 12      6. 96      7. 63      8. 54

### Section 2: Reasoning - Problem Solving with Remainders

9. 3 buses (

$$45 \div 20 = 2$$

r 5; round up because 5 students need a bus too)

10. 8 pencils each; 3 left over (

$$67 \div 8 = 8$$

r 3)

11. 8 complete pieces (

$$125 \div 15 = 8$$

r 5)

12. 14 full bags; 5 lollies left over (

$$89 \div 6 = 14$$

r 5)

13. 8 cars (

$$38 \div 5 = 7$$

r 3; round up to 8)

14. 12 complete rows (

$$150 \div 12 = 12$$

r 6)

15. 10 tables (

$$75 \div 8 = 9$$

r 3; round up to 10)

16. 9 full boxes; 5 cupcakes left (

$$95 \div 10 = 9$$



r 5)

### Section 3: Challenge - Real-World Division

17. 10 full bags; 3 cookies left over (

$$53 \div 5 = 10$$

r 3)

18. 13 complete teams; 0 students not in a team (

$$156 \div 12 = 13$$

)

19. 20 cartons completely filled; 21 cartons needed total (

$$245 \div 12 = 20$$

r 5)

20. \$43 each (

$$387 \div 9 = 43$$

)

21. 125 marbles each; 0 left over (

$$1,000 \div 8 = 125$$

)

22. 25 people per row; 3 remaining (

$$378 \div 15 = 25$$

r 3)

23. 12 pizzas (

$$95 \div 8 = 11$$

r 7; round up to 12)

24. First:

$$13 \times 18 + 7 = 241$$

; Then:

$$241 \div 6 = 40$$

r 1

## Brilliant!

You've mastered Division & Remainders!  
Keep up the fantastic work in Year 5 Maths!