

BIG 10

MULTIPLICATION & DIVISION

Ten ways to reinforce
multiplication and division
problem solving.



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To the Teacher

- This product is meant to be a no frills, all action tool for cementing the concept of multiplication and division in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
 - TEKS
 - -solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders 4.4(H)
 - Common Core
 - CCSS.MATH.CONTENT.4.NBT.B.5 Multiply a whole number up to four digits by a one-digit whole number, and multiply two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
 - CCSS.MATH.CONTENT.4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Prep Recommendations

- Each activity is created in black and white to conserve color ink
 - Using colored paper to differentiate different parts in each activity will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.

Content Vocabulary

solve

remainder

interpret

dividend

multiplication

divisor

division

quotient

product

group

Operation Sort

Read each word problem and sort it as either a multiplication or division problem.

Teacher Suggestions

Operation Sort

- In this activity students are asked to read a word problem and sort it as being either a multiplication or division problem.

- This activity can be used in a variety of ways:

Small group with teacher guidance

- As partner activity to practice
- Independently to assess

Materials

- Included:
- Word problems
 - Sorting Mats
 - Recording sheet
 - Answer Key
- Not Included:
- pencil

1

Rhonda is making dinner for 16 people. The recipe she is using serves 4. How many times does she need to duplicate the recipe?

2

Six piñatas each have 56 pieces of candy. How many pieces of candy are in the piñatas?

3

Helen earns \$23 for each lawn that she mows. After mowing 6 lawns how much money has she earned?

4

A family of four is sharing 36 donuts. How many donuts will each person get?

5

A math test has thirty-four questions. If I can answer 3 questions a minute, how long will it take me to complete the test?

6

On a road trip, Sam drove 70 mph for four hours. How far was Sam able to drive?

7

Sheri is updating the apps on her tablet. She has 19 apps that need updating, and each app will take 4 minutes. How long will it take for all the apps to update?

8

Mrs. Hagen takes photographs for 15 minutes, then spends three times as long editing them. How long did she spend editing the photographs?

9

Drew types 16 pages of stories into a word processor. Each page has four paragraphs. How many paragraphs are in the complete draft?

10

Gianny was able to place $1\frac{1}{2}$ tiles while playing Tetris. It takes her 9 seconds to place one tile. How long did it take her to place all the tiles?

11

Fourth graders take 14 math tests throughout the year. If each test has 16 questions how many questions are on all the tests?

12

Granny Smith apples are three for a dollar. How many apples could you buy for \$70?

13

Violet is using counting bears to solve math problems. She finds that every fourth bear of the 96 bears is red. How many bears are red?

14

Alan takes out an interest free loan for \$1,000 with stipulation that he pay back \$10 a week. How many weeks will it take him to pay back the loan?

15

A rectangular deck has an area of 140 square feet. If the deck is 14 feet long, how wide is it?

16

A commercial advertises a product for three easy payments of \$19.99. What does the product cost?

17

There are 127 fourth graders going on a field trip. There needs to be a chaperone for every 7 students. How many chaperones do they need?

18

A Girl Scout troop has 168 boxes of cookies to sell in 12 days. On average, how many boxes do they need to sell each day?

Multiplication

Division

penneville

Name _____ # _____ Date _____

Operation Sort Response Sheet

Read each word problem and sort it as either a multiplication or division problem.

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18

Operation Sort Answer Key

1 division	2 multiplication	3 multiplication	4 division	5 division	6 multiplication
7 multiplication	8 multiplication	9 multiplication	10 multiplication	11 multiplication	12 multiplication
13 division	14 division	15 division	16 multiplication	17 division	18 division

Name _____ # _____ Date _____

Test Bridge Questions

1. Christa buys three pairs of sunglasses that cost \$36 each. How much did she spend?
 - a. \$3
 - b. \$108
 - c. \$90
 - d. \$114
2. Michael's basketball team scored 6 three-pointers and 1 one-point free throw and 4 two-pointers. How many points did they score?
 - a. 28
 - b. 38
 - c. 18
 - d. 6
3. Angel ran 1/5 kilometers last year. If she ran 3 kilometers this year, how many days did she run?
 - a. 15
 - b. 3
 - c. 5
 - d. 6
4. A package of cookies has 27 cookies in it. If I share the package with my sister evenly, how many cookies will be left over?
 - a. 13
 - b. 14
 - c. 1
 - d. 2

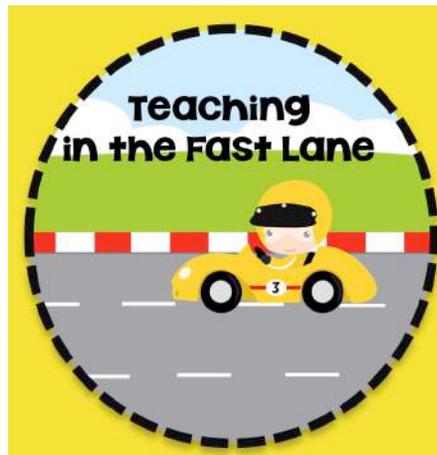
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