ALBERT

Name _____ Date _____

# Multiplication and Division Word Problems Worksheet

Grade 3 · Common Core 3.OA.A.3

> Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

## Practice

Builds the skill step by step.

1. A classroom has 8 rows of desks with 3 desks in each row. How many desks are there?

2. Each bag of rice weighs 5 pounds. How much do 6 bags weigh?

3. 45 students ride to the zoo in 5 vans. Each van has the same number of students. How many students are in each van?

4. Pat has 4 packs of gum. Each pack has 7 pieces. Which equation can be used to find p, the total number of pieces?

   A. $4 \times 7 = p$

   B. $4 + 7 = p$

   C. $7 \div 4 = p$

   D. $p \times 4 = 7$

5. A rope is 18 feet long. It is cut into 3 pieces of equal length. How long is each piece?

6. Kim plants 9 rows of carrots with 4 carrots in each row. How many carrots does she plant?

7. Mr. Cole sets up 24 chairs in rows of 6. Which equation finds r, the number of rows?

   A. $6 \div 24 = r$

   B. $24 \div 6 = r$

   C. $24 \times 6 = r$

   D. $24 - 6 = r$

8. A garden path is made of 7 stepping stones in a line. Each stone is 2 feet long. How long is the path?

9. Jo has 64 marbles in 8 equal piles. How many marbles are in each pile?

10. Solve for the unknown: $5 \times n = 40$. What is n?

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## On Level

Grade-level practice.

1. A small theater has 9 rows with 9 seats in each row. How many seats are there?

2. Liam has some bags with 6 oranges in each bag. He has 54 oranges in all. How many bags does he have?

3. A dog eats 3 cups of food each day. How many cups of food does it eat in 7 days?

4. Ana puts 32 photos into an album with 4 photos on each page. Which equation could she use to find p, the number of pages?

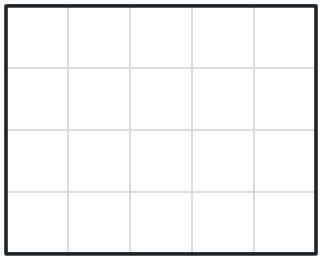
   A. $p \div 4 = 32$

   B. $4 + p = 32$

   C. $32 \times 4 = p$

   D. $4 \times p = 32$

5. The picture shows one full tray of cupcakes. How many cupcakes are on 3 trays like this one?



6. Each bucket holds 8 liters of water. How many liters do 6 full buckets hold?

7. A garden has 56 plants in 7 equal rows. How many plants are in each row?

8. Owen has 6 boxes of crayons with 9 crayons in each box. Write an equation using c for the total number of crayons, then find c.

9. Which problem can be solved with ? × 4 = 28?

   A. There are 28 apples, and 4 are eaten. How many are left?

   B. There are 4 apples, and 28 more are picked. How many apples are there now?

   C. Some bags have 4 apples in each bag. There are 28 apples. How many bags are there?

   D. There are 4 bags with 28 apples in each bag. How many apples are there?

10. A ribbon is 72 inches long. It is cut into pieces that are each 8 inches long. How many pieces are there?

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## Challenge

Multi-step and word problems that stretch it.

1. A garden will have 8 rows with 7 plants in each row. Gus has already planted 30 plants. How many more plants does he need to plant?

2. A farmer packs 63 apples into bags of 7. She sells each bag for 4 dollars. How much money does she get if she sells all the bags?

3. Leah walks 3 miles each day. Her brother walks 2 miles each day. How many more miles does Leah walk than her brother in 7 days?

4. A class has 4 rows of desks with 6 desks in each row. The teacher moves all of the desks into 3 equal rows. How many desks are in each row now?

5. A coach puts 72 balls into g bags with 9 balls in each bag. So $72 \div g = 9$. What is g?

6. Write a word problem about a measurement (inches, feet, liters, pounds or grams) that can be solved with 36 ÷ 4. Then solve it.

7. Mia has 5 boxes with 8 pens in each box. Sam has 6 boxes with 6 pens in each box. How many pens do they have in all?

8. A bookshelf has 4 shelves with 9 books on each shelf. Then 3 more books are put on each of 2 shelves. How many books are on the bookshelf now?

9. Marco has 30 cookies to put into bags of 5. He wants to find b, the number of bags. Which equation and answer are correct?

   A. 30 ÷ 5 = b; b = 6

   B. 5 × 30 = b; b = 150

   C. 30 − 5 = b; b = 25

   D. 30 ÷ 5 = b; b = 5

10. A fish tank needs 24 liters of water. Lily pours in 3 liters on each trip. She has made 5 trips so far. How many more trips does she need to make?