Name Answers Date

Whole Numbers Math – Multiply and Divide Word Problems

All of the following problems can be solved with either multiplication or division.

1) A person walks at a rate of 4 miles per hour.

a. How long will it take to walk 12 miles?

$12 \text{ miles} \times \frac{1 \text{ hour}}{4 \text{ miles}}$

$= 12 \times 1 \div 4$

$12 \div 4 =$ **3 hours**

b. How far will the person walk in 12 hours?

$12 \text{ hours} \times \frac{4 \text{ miles}}{1 \text{ hour}}$

$= 12 \times 4 \div 1$

$48 \div 1 =$ **48 miles**

2) Three feet is the same as one yard.

a. How many feet are there in 27 yards?

$27 \text{ yards} \times \frac{3 \text{ feet}}{1 \text{ yard}}$

$= 27 \times 3 \div 1$

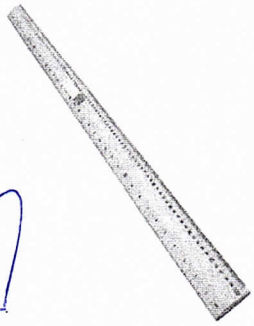
$81 \div 1 =$ **81 feet**

b. How many yards are there in 27 feet?

$27 \text{ feet} \times \frac{1 \text{ yard}}{3 \text{ feet}}$

$= 27 \times 1 \div 3$

$27 \div 3 =$ **9 yards**



3) Jimmy gets paid \$9 per hour.

a. How long will he have to work to make a total of \$72?

$\$72 \times \frac{1 \text{ hour}}{\$9} = 72 \times 1 \div 9$

$72 \div 9 =$ **8 hours**

b. How much money will he make for working 72 hours?

$72 \text{ hours} \times \frac{\$9}{1 \text{ hour}}$

$= 72 \times 9 \div 1$

$648 \div 1 =$ **\$648**

4) A school field trip requires there to be one adult for every five children.

a. If there are 30 children, how many adults are needed?

$30 \text{ children} \times \frac{1 \text{ adult}}{5 \text{ children}}$

$= 30 \times 1 \div 5$

$30 \div 5 =$ **6 adults**

b. If there are 30 adults, how many children can go on the field trip?

$30 \text{ adults} \times \frac{5 \text{ children}}{1 \text{ adult}}$

$= 30 \times 5 \div 1$

$150 \div 1 =$ **150 children**

Basic Addition & Subtraction Word Problems

Two- and Three-Digit Numbers - With Extra Information

ANSWER KEY

(1) Michelle's coffee shop sold eight hundred thirty-four cups of coffee on Monday and Tuesday combined. They also sold 91 donuts during these two days. Seven hundred forty-seven of the cups were sold on Tuesday. How many cups did the shop sell on Monday alone?

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 834
-747
  87
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Answer: 87 cups of coffee

(2) The school library bought 779 new books in the last two years. Four hundred twenty-five of the books were fiction. 37 of those books were bought this year. How many new books did the library buy last year?

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 779
- 37
 742
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Answer: 742 books

(3) Anthony put 404 plates and 311 glasses through the cafeteria's dishwasher. He put fifty-five of the plates through a second time because they were so dirty. How many plates only needed to be washed once?

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 404
- 55
 349
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Answer: 349 plates

(4) There were 667 people riding on a train. 89 people got off at the next station. 49 of those left are reading books. How many people were left riding the train?

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 667
- 89
 578
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Answer: 578 people