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?

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

$= 27 \times 3 \div 1$

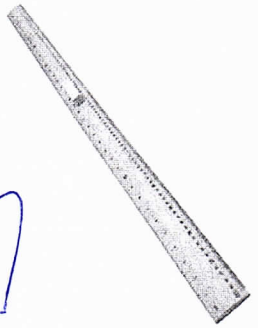
$81 \div 1 =$ **81 feet**

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**