

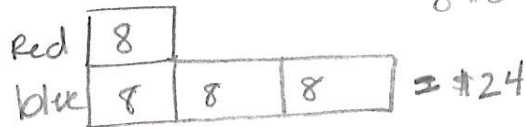
Name _____

Multiplicative Equations

Date _____

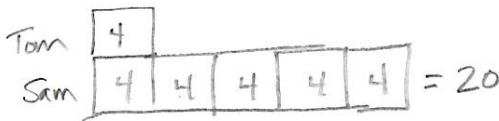
DIRECTIONS: Write the equation for each problem and answer the question in a complete sentence. (BE CAREFUL! Some are tricky!)

1. A red umbrella costs $\$8.00$. A blue umbrella cost 3 times as much as the red umbrella. How much does the blue umbrella cost?



$8 \times 3 = 24$ the blue umbrella costs \$24.

2. Tom ran 4 laps of the football field. Sam ran 5 times as many laps of the football field. How many laps did the boys run altogether?

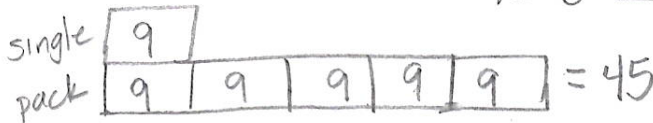


$5 \times 4 = 20$ Sam = 20
Tom = 4

24

The boys ran 24 laps altogether.

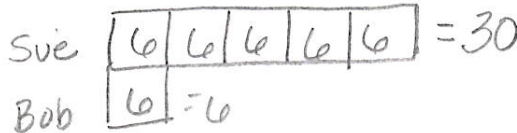
3. A pack of six pencils costs 5 times as much as a single pencil. A single pencil costs 9 cents. How much does the pack of pencils cost?



$45 \div 5 = \square$ $5 \times 9 = 45$

The pack of pencils costs 45¢.

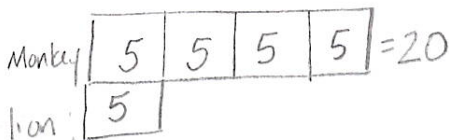
4. Sue ate 30 cherries. She ate 5 times as many cherries as Bob. How many cherries did they eat in all?



$30 \div 5 = \square$
 $\square \times 5 = 30$

They ate 36 cherries in all.

5. There are 20 monkeys in a zoo. There are 4 times as many monkeys as lions. How many lions are there?



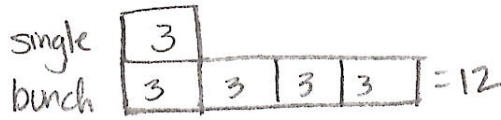
There are 5 lions.

$20 \div 4 = \square$
 $\square \times 4 = 20$

6. A single rose costs $\$3$. A bunch of roses costs $\$12$. How many times more does the bunch of roses cost than the single rose?

$$\$12 \div \$3 = \square$$

$$\square \times 3 = 12$$

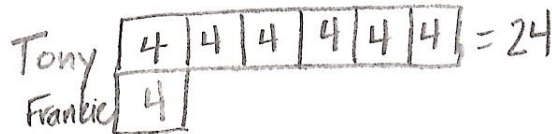


A bunch of roses costs 4 times more than a single rose.

7. Frankie and Tony went fishing. Tony caught 24 fish. He caught 6 times as many fish as Frankie. How many fish did Frankie catch?

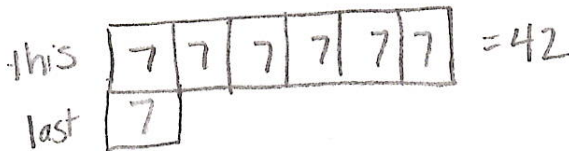
$$24 \div 6 = \square$$

$$\square \times 6 = 24$$



Frankie caught 4 fish.

8. This month Jane saved 6 times as much money as she did last month. If she saved $\$42$ this month, how much did she save last month?

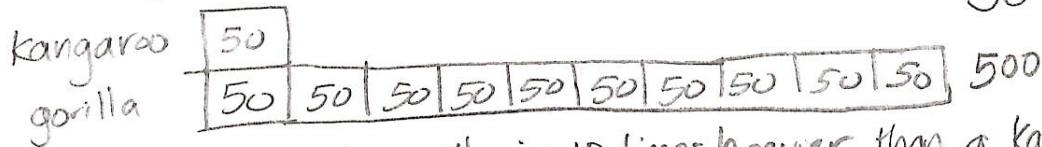


She saved $\$7$ last month.

$$\$42 \div 6 = \square$$

$$\square \times 6 = 42$$

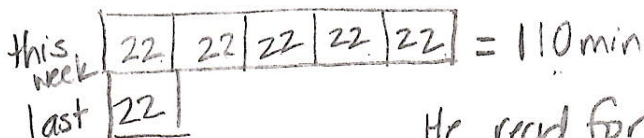
9. A kangaroo weighs 50 lbs. A gorilla weighs 500 lbs. How many times heavier is the gorilla than the kangaroo?



$$50 \times \square = 500$$

A gorilla is 10 times heavier than a kangaroo.

10. Jack read 5 times as long this week as he did last week. If he read for 110 minutes this week, how long did he read for last week?

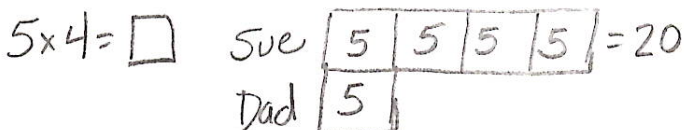


$$110 \div 5 = \square$$

$$\square \times 5 = 110$$

He read for 22 minutes last week.

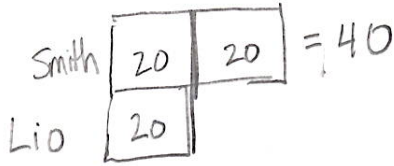
11. Dad picked 5 kg of apples. Aunt Sue picked 4 times as many apples as dad. How many more kilograms of apples did Aunt Sue pick than dad?



$$\begin{array}{r} \text{Sue } 20 \\ \text{dad } - 5 \\ \hline 15 \text{ kg} \end{array}$$

Aunt Sue picked 15 kg more than dad.

12. Ms. Lio has 20 dice. Mr. Smith has $\times 2$ twice as many dice as Ms. Lio. He borrows all of Ms. Lio's dice for a math game. Each student needs 3 dice. How many students will be able to play the game?



$$\begin{array}{r} \text{Lio} = 20 \\ \text{Smith} = 40 \\ \hline 60 \text{ dice} \end{array}$$

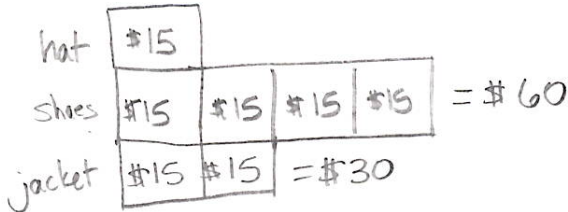
$$60 \div 3 = \square$$

$$3 \times \square = 60$$

$$20 \times 2 = \square \text{ (Smith)}$$

20 students will be able to play the game.

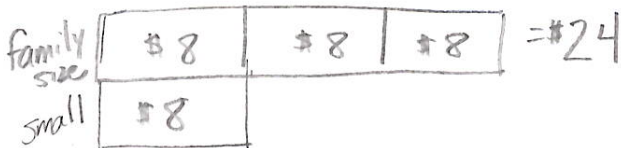
13. A hat is on sale for \$15. A pair of shoes costs four times as much. A jacket is half as much as the shoes. If Mark buys one hat, two pairs of shoes and one jacket, how much will he spend?



$$\begin{array}{r} \$15 \text{ hat} \\ 30 \text{ jacket} \\ 60 \text{ shoes} \\ + 60 \text{ shoes} \\ \hline \$165 \end{array}$$

He will spend \$165.

14. A family size pizza is \$24 and costs 3 times as much as a small pizza. Peter buys two family size pizzas and 3 small pizzas. How much does he spend in all?



$$\begin{array}{r} \$24 \\ + 24 \\ \hline \$48 \\ \text{family size} \end{array}$$

$$2 \times \$24 = \$48$$

$$3 \times \$8 = +24$$

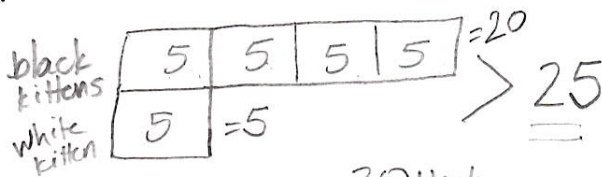
$$\boxed{\$72}$$

$$24 \div 3 = 8$$

$$\begin{array}{r} \$8 \\ \times 3 \\ \hline \$24 \\ \text{small} \end{array}$$

He spent \$72 on pizza.

15. Zoe counts 4 times as many black kittens as white kittens for sale at the pet store. She counts a total of 25 kittens. How many more black kittens does Zoe count than white kittens?



$$25 \div 5 = 5$$

$$\begin{array}{r} 20 \text{ black} \\ - 5 \text{ white} \\ \hline 15 \text{ difference} \end{array}$$

She counted 15 more black kittens than white kittens.