## 5<sup>th</sup> Grade TEKS Readiness Focus

TEKS 5.4B <u>represent and solve</u> multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.

## Activity Directions:

Items Needed: Math Tales activity, scissors, glue

1. Students must match word problems to given equations including a variable representing the unknown quantity. They must then calculate the solution to each problem. (See below.)

2. Have students practice questions coded to TEKS 5.4B.

Name		L.	
	Math	Tales	
Find the matching word problem and solution for each equation shown below			
The perimeter of a rectangle measures 52 inches. If the length of the rectangle is 16 inches, what is the width of the rectangle, w? $(2 \times 16) + (2 \times w) = 52$ $w = 10$	Dan has 6 pencils. Ann has 12 pencils. Jan has 8 mencils off Dan, Ann, and daugive han if their solution of some kind marten chusten, how pany pencils will be left, $p$ ? + 12 + 8 $i$ $\div$ 2 = $p$ i = 13	Nachi is maining bracelets for the in club. The uses a total of 20 leads for each bracelet. The beads are purple, six of the beads are white, and the remaining beads, b, are striped. How many beads are striped? 5 + 6 + b = 20 b = 9	Trey is a truck driver. His odometer read 130,000 miles on Monday morning and 132,875 miles on Friday night. If he drove all 5 days, what is the average amount Trey drove each day, $a$ ? (132,875 - 130,000) $\div$ 5 = $a$ a = 575
There are 136 boys attending a summer baseball camp. 44 of the campers are younger than 10. One-half of the remaining campers are older than 15. How many of the boys, <i>b</i> , are older than 15 years of age?	Wyatt was born weighing 8 pounds. He gained an average of 8 pounds a year for 6 years. How much did Wyatt weigh, <i>w</i> , at that point in time?	Lily earned \$200 baby-sitting each month for 6 months. If she deposited \$575 of her earnings into a college savings account, what amount of money does Lily have now, a?	Mr. Banda is a painter. He bought 4 paintbrushes for \$5 each, and 5 gallons of paint, p. If he spent a total of \$95 on the paint and brushes, what is the cost of one gallon of paint?
$\frac{(136 - 44)}{2} = b$	$8 + 6 \times 8 = w$	$(6 \times 200) - 575 = a$	$(4 \times 5) + (5 \times p) = 95$
<i>b</i> = 46	<i>w</i> = 56	<i>a</i> = 625	p = 15

Name

Date

TEKS 5.4B <u>represent and solve</u> multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.

TEKS 5.4B Mini-Assessment 1. Coach Pena is hosting a cookout for 32 football 2. A technology service company completed players. He will cook 2 hamburgers for each player. repairs on 52 laptops and 38 smart phones last Hamburger buns are sold in packages of 8. Which of month. If each repair required 2 hours of service the following equations can be used to find p, the time, which equation can be used to find h, the number of packages of hamburger buns needed for total number of hours spent repairing the laptops the cookout? and smart phones? (A)(A) $(32 \div 2) + 8 = p$ h = (52 + 38) + 2(B) (B)  $(32 \times 2) \div 8 = p$  $\bigcirc$  $\bigcirc$  $(32 \div 2) \times 8 = p$ (D) $(32 \times 2) + 8 = p$  $=(52+38)\div 2$ 3. Ruben has a collection of 118 rare coins 4. At the museum, adult tickets cost \$8 and youth tickets cost \$5. Which equation can be He displays 34 of the coing in a shadow box. used to find *t*, the total number of dollars a family He keeps the ten ail ing coins in 6 storage of 2 adults and 6 youth would pay for museum tickets? containe • Each storage container holds an equal number of Ruben's coins. (A) $t = (2 \times 8) + (6 \times 5)$ Which equation can be used to find *n*, the number of coins in each storage container? **B**  $t = (2 \times 5) + (6 \times 8)$ (A) $(118 + 34) \times 6 = n$  $(\mathbb{C})$  $t = (2 \times 6) + (5 \times 8)$ **B**  $(118 - 34) \times 6 = n$  $\bigcirc$  $t = (2 \times 8) \times (6 \times 5)$  $\bigcirc$  $(118 + 34) \div 6 = n$  $\bigcirc$  $(118 - 34) \div 6 = n$ 

5. Farmer Fred is building a fence around the perimeter of his garden.

- The perimeter of the garden is 64 feet.
- Each section of the fence is 4 feet long and costs \$12.

Which equation can Farmer Fred use to find *b*, the cost of the sections of fence he needs for the garden?

- (A)  $64 \div (12 \div 4) = b$
- (12 x 4) x 64 = b
- © 64 ÷ (12 x 4) = b
- (64 ÷ 4) x 12 = b

7. Christina and Clarissa have a lemonade stand On Saturday, they bought 120 lemons to make lemonade. Christina used 15 lemons each hour for 3 hours, and Clarissa used 20 lemons each hour for 2 hours. The equation below can be used to find x, the number of lemons remaining.

How many lemons are left?

Enter your answer in the box.

6. A fan club ordered 8 boxes of T-shirts. Each box contained 24 small and 36 large T-shirts. The club used this equation to find *x*, the number of T-shirts packed in all the boxes.

How many T-shirts were inside these boxes?

Enter your answer in the box.



A game app awards points based on targets hit. Melody played one round and earned the following points.

- She hit 5 targets worth 4 points each.
- She hit 7 targets worth 5 points each.
- She hit 14 targets worth 1 point each.

This equation can be used to find p, the total number of points Melody earned during the round.

$$p = 5(4) + 7(5) + 14$$

What is the total number of points Melody earned during the round?

Enter your answer in the box.



9. Mr. Xian owns a bike rental business. It is open for 8 hours on Saturday. On Saturday morning, Mr. Xian had 50 bicycles.

- Mr. Xian rented 4 bicycles to customers during each of the first 4 hours.
- Mr. Xian rented 2 bicycles to customers during each of the next 3 hours.
- The total number of bicycles that were brought back to the company by customers on Saturday was 19.

In which equation does *b* represent the number of bicycles Mr. Xian had at the end of the day in Saturday?

- (A) b = 50 (4 + 4) (2 + 3) + 19
- (B)  $b = 50 (4 x^{-1}) (2 x 3) + 19$
- b = 50 (4 + 4) (2 + 3) 19

10. Anthony has a food truck. He earned a total of \$163.75 in the first 30 minutes he was open for business on Monday.

- He sold 20 hamburgers for \$5.75 each.
- He sold 15 hot dogs.
- Each hot dog was the same price.

The equation shown can be used to find h, the amount of money Anthony earned for each hot dog souch

 $h = [163.75 - (20 \times 5.75)] \div 15$ 

What was the amount of money in dollars and cents Anthony earned for each hot dog sold?

Enter your answer in the box.