## $5^{\text {th }}$ Grade TEKS Readiness Focus

TEKS 5.4B represent and solve 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 $\qquad$

## Math Tales

Find the matching word problem and solution for each equation shown belov


| Na i is ma g braceleto for the $n$ club. . uses a total f 20 eads for each bracelet. the beads are purple, six ot ve 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 <br> odometer read 130,000 miles <br> on Monday morning and <br> 132,875 miles on Friday night. <br> If he drove all 5 days, what is <br> the average amount Trey <br> drove each day, $a$ ? |
| :---: |
| $(132,875-130,000) \div 5=a$ |
| $a=575$ |


| There are 136 boys attending <br> summer baseball camp. 44 of <br> the campers are younger than <br> 10. One-half of the remaining <br> campers are older than 15 . <br> How many of the boys, $b$, are <br> older than 15 years of age? |
| :---: |
| $\frac{(136-44)}{2}=b$ |
| $b=46$ |

$\left.\begin{array}{|c|}\hline \text { Wyatt was born weighing } 8 \\ \text { pounds. He gained an average } \\ \text { of } 8 \text { pounds a year for } 6 \text { years. } \\ \text { How much did Wyatt weigh, } w, \\ \text { at that point in time? }\end{array}\right\}$

| Lily earned $\$ 200$ baby-sitting <br> each month for 6 months. If <br> she deposited $\$ 575$ of her <br> earnings into a college savings <br> account, what amount of <br> money does Lily have now, $a$ ? |
| :---: |
| $(6 \times 200)-575=a$ |
| $a=625$ |


| 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? |$|$| $(4 \times 5)+(5 \times p)=95$ |
| :---: |
| $p=15$ |

$\qquad$
TEKS 5.4B represent and solve 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 players. He will cook 2 hamburgers for each player. Hamburger buns are sold in packages of 8 . Which of the following equations can be used to find $p$, the number of packages of hamburger buns needed for the cookout?
(A) $(32 \div 2)+8=p$
(B) $(32 \times 2) \div 8=p$
(C) $(32 \div 2) \times 8=p$
(D) $(32 \times 2)+8=p$
2. Ruben has a collection of 118 rar unins.

- He displays 34 of tec ir in a shadow box.
- He keeps the eri air ing coins in 6 storage containe
- Each storace container holds an equal number of Ruben's coins.

Which equation can be used to find $n$, the number of coins in each storage container?
(A) $(118+34) \times 6=n$
(B) $(118-34) \times 6=n$
(C) $(118+34) \div 6=n$
(D) $(118-34) \div 6=n$
2. A technology service company completed repairs on 52 laptops and 38 smart phones last month. If each repair required 2 hours of service time, which equation can be used to find $h$, the total number of hours spent repairing the laptops and smart phones?
(A) $h=(52+38)+2$
(B) $h=(52+38)-2$
(C) $h(5+30) \times 2$
(D)

$$
h=(52+38) \div 2
$$

4. At the museum, adult tickets cost $\$ 8$ and youth tickets cost $\$ 5$. Which equation can be used to find $t$, the total number of dollars a family of 2 adults and 6 youth would pay for museum tickets?
(A) $t=(2 \times 8)+(6 \times 5)$
(B) $t=(2 \times 5)+(6 \times 8)$
(C) $t=(2 \times 6)+(5 \times 8)$
(D) $t=(2 \times 8) \times(6 \times 5)$
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) $64 \div(12 \div 4)=b$
(B) $(12 \times 4) \times 64=b$
(C) $64 \div(12 \times 4)=b$
(D) $(64 \div 4) \times 12=b$
7. Christina and Clarissa have a lemonade stan On Saturday, they bought 120 lemons to main lemonade. Christina used 15 lemons each iour for 3 hours, and Clarissa used 20 le no nseach hour for 2 hours. The equation beion can be used to find $x$, the number of lemons it ma ining.

$$
x=120-(3 \times 15)-(2 \times 20)
$$

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.

$$
x=(24+36) 8
$$

How many T-shirts were inside these boxes?

Enter your answer in the box.

8. 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
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 bicycles Mr. Xian had at the end of the day Saturday?
(A)

$$
b=50-(4+4)-(2+31+19)
$$

(B) $b=50-(4 \times 4)-(2 \times 3)+19$
(C) $b=50-(4+4)-(2+3)-19$
(D) $b=50-(4 \times 4)-(2 \times 3)-19$
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 wis the same price.

The equatio sho vn cun be used to find $h$, the amount of no ney Anthony earned for each hot drogsuá

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

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

Enter your answer in the box.


