Name _____   Date _____

Max's family takes the train to visit the city zoo. Use the RDW process to solve the problems about Max's trip to the zoo. Use a letter to represent the unknown in each problem.

1. The sign below shows information about the train schedule into the city.

> **Train Fare–One Way**
>
> Adult..............................$ 8
>
> Child..............................$ 6
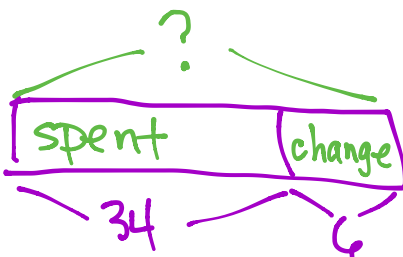>
> Leaves every 15 minutes starting at 6:00 a.m.

a. Max's family buys 2 adult tickets and 3 child tickets. How much does it cost Max's family to take the train into the city?

$$(2 \times 8) + (3 \times 6)$$
$$16 + 18 = 34$$

It costs $34 to take the train.

b. Max's father pays for the tickets with $10 bills. He receives $6 in change. How many $10 bills does Max's father use to pay for the train tickets?
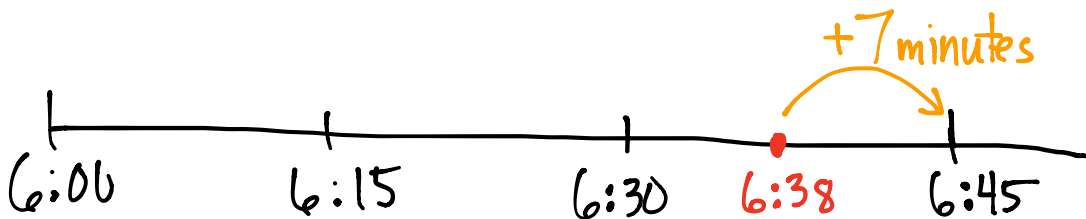
?
| spent | change |
34

$$34 + 6 = 40$$

*He used 4 ten-dollar bills to pay.*

c. Max's family wants to take the fourth train of the day. It's 6:38 a.m. now. How many minutes do they have to wait for the fourth train?

The fourth train leaves at 6:45.

+7 minutes

6:00   6:15   6:30   6:38   6:45

They will wait 7 minutes.

EUREKA MATH™   **Lesson 1:**   Solve word problems in varied contexts using a letter to represent the unknown.

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3

2. At the city zoo, they see 17 young bats and 19 adult bats. The bats are placed equally into 4 areas. How many bats are in each area?

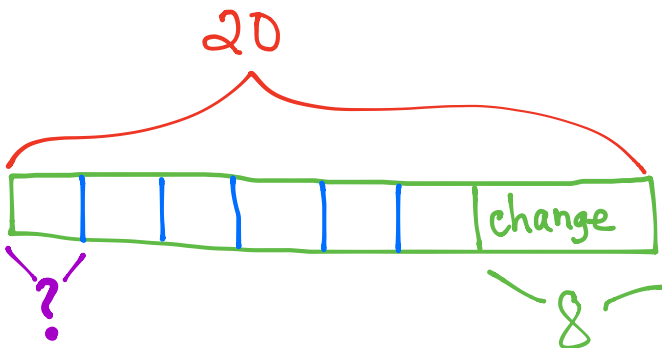**36**

?

17   19
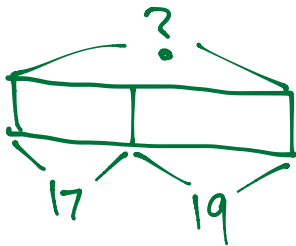
$$\begin{array}{r} 19 \\ +17 \\ \hline 36 \end{array}$$

?
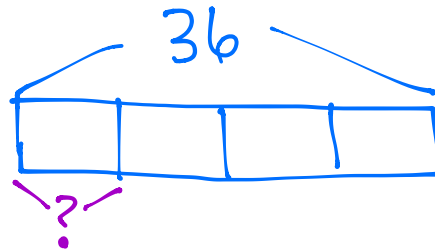
$$36 \div 4 = 9$$

9 bats are placed in each area.

3. Max's father gives the cashier $20 to pay for 6 water bottles. The cashier gives him $8 in change. How much does each water bottle cost?
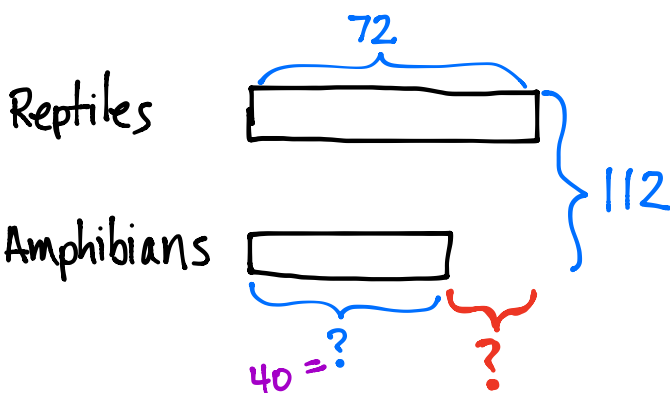
20

change

?   **8**

$$20 - 8 = 12$$

$$12 \div 6 = 2$$

Each bottle costs $2.

4. The zoo has 112 types of reptiles and amphibians in their exhibits. There are 72 types of reptiles, and the rest are amphibians. How many more types of reptiles are there than amphibians in the exhibits?

72

Reptiles

112

Amphibians

40 = ?   **?**

$$\begin{array}{r} 112 \\ -72 \\ \hline 40 \end{array}$$

40 amphibians

$$\begin{array}{r} 72 \\ -40 \\ \hline 32 \end{array}$$

There are 32 more types of reptiles than amphibians.

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MATH™

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