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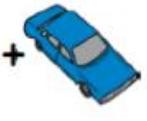
### W.S. (3.E.1): Find objects that stand for unknown

**Objective:** Recognise the use of an object to represent an unknown quantity in addition and subtraction

Q1. Find the value of each object.

a)  +  = 20  
 = 10

b)  +  = 60  
 = 30

c)  +  = 40

d)  -  = 20

$$30 - 10$$

Q2. Franky has 20 dollars. After buying a book he has 5 dollars left. How much does the book cost?

$$\$20 - \text{book} = \$5$$

 is \$ \underline{\hspace{2cm}} \text{15}

Q3. Three identical ice creams cost 6 dollars.

 = 6

 = 2

Q4.  = 20 marbles

Find the value of .

The value is 10.

Q5.  $\$5 - \text{lollipop} = \$3$

What is the cost of ?

The cost is \$2.

Q6.  $\$15 + \text{dress} = \$38$

What is the cost of ?

The cost of the  is \$23.

Q7. Find the value of each popsicle stick.

 $+ 8 = 16$

 $= \underline{8}$

 -  $= 19$

 $= \underline{27}$

 +  $= 39$

 $= \underline{12}$

 +  $= 55$

 $= \underline{43}$

 -  $= 17$

 $= \underline{26}$

Q8. This pictogram shows the cars parked in a car park.

Blue								
Green								
Yellow								
Red								
Orange								
Purple								
Black								

The key :  = 2 cars

• How many **black** cars are there? 15

• How many **red** cars are there? 11

• How many **more red** cars than **blue** cars are there?

$$11 - 8 = 3$$

• How many **fewer orange** cars than **purple** cars are there?

$$4 - 2 = 2$$

• How many cars are there **altogether**?

$$8 + 6 + 9 + 11 + 2 + 4 + 15 = 55$$

Q9. Two identical umbrellas cost \$18 in all.

What much does one umbrella cost?

$$\begin{array}{c} \uparrow \\ \text{U} \end{array} + \begin{array}{c} \uparrow \\ \text{U} \end{array} = \$18$$

$$\begin{array}{c} \uparrow \\ \text{U} \end{array} = \underline{\quad 9 \quad}$$

Each umbrella costs 9 dollars.

Q10. Two bags have 16 baseballs in all.

Each bag has the same number of baseballs.

How many baseballs are in each bag?

$$\begin{array}{c} \text{Bag} \\ \text{B} \end{array} + \begin{array}{c} \text{Bag} \\ \text{B} \end{array} = 16$$

$$\begin{array}{c} \text{Bag} \\ \text{B} \end{array} = \underline{\quad 8 \quad}$$

There are 8 baseballs in each bag.

Q11. Two identical books cost \$20.

How much does each book cost?

$$\begin{array}{c} \text{Book} \\ \text{B} \end{array} + \begin{array}{c} \text{Book} \\ \text{B} \end{array} = 20$$

$$\begin{array}{c} \text{Book} \\ \text{B} \end{array} = \underline{\quad 10 \quad}$$

Each book costs 10.

Q12. Mr Lee pays for a sandwich with a \$5 note.

He gets back \$2 change.

How much does the sandwich cost?

  $+ \$2 = \$5$

  $= \$5 - \$2$

  $= \underline{\hspace{2cm}} \quad 3$

The sandwich costs \$3.

Q13. Thomas has 20 marbles.

He puts some marbles in a bag.

6 marbles are not in the bag.

How many marbles are in the bag?

  $+ 6 = 20$

There are 14 marbles in the bag.

Q14. Grace took out 5 pencils from a pencil case.

There were now 7 pencils left in the pencil case.

How many pencils were there in the pencil case at first?


$$\begin{array}{r} 5 \\ - 15 = 7 \\ \hline \end{array}$$

= 12

There were 12 pencils in the pencil case at first.

Q15. Find the value of each muffin.


$$\begin{array}{r} + \\ + \\ + \\ \hline \end{array} = 3$$
  

$$= \underline{1}$$

Q16. The cost of a watch and bicycle is \$75.

The watch costs \$20.


$$\begin{array}{r} + \\ \hline \end{array} = \underline{75}$$

How much does the bicycle cost? 75 - 20 = 55