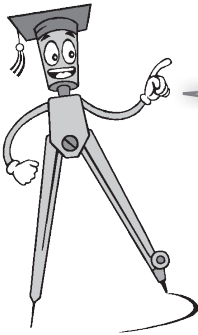
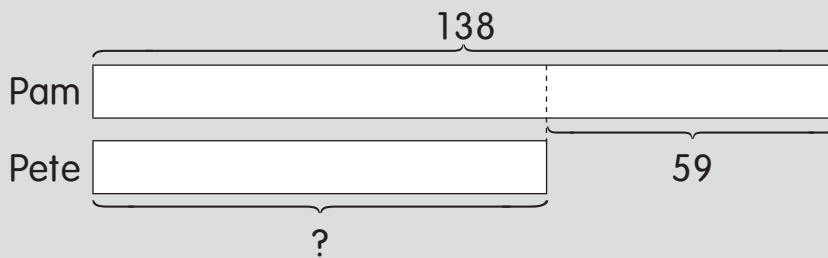


Worked Example 2



Pam has 138 magazines.
Pete has 59 fewer magazines than Pam.

- (a) How many magazines does Pete have?
(b) How many magazines do they have altogether?



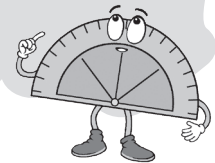
(a) $138 - 59 = 79$

Pete has **79** magazines.

(b) $138 + 79 = 217$

They have **217** magazines altogether.

Think: How would the answer change if Pam has 59 fewer magazines than Pete instead? Would the total number of magazines remain unchanged?



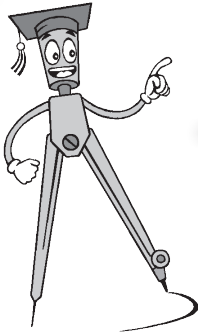
7. Troy read 314 magazines. Mike also read some magazines. If Mike read 68 fewer magazines, he would have read the same number of magazines as Troy.
- (a) How many magazines did Mike read?
 - (b) How many magazines did they read altogether?



8. Belinda has 409 ribbons. If she gives away 238 ribbons, she will have the same number of ribbons as June.
- (a) How many ribbons does June have?
 - (b) How many ribbons do they have altogether?



Worked Example 2



If $\bigcirc + \bigcirc + \bigcirc = 9$
 and $\square + \square + \bigcirc = 13$,
 find the value of $\bigcirc + \bigcirc + \square$.

Method 1

Given: $\bigcirc + \bigcirc + \bigcirc = 9$

$$\bigcirc = 3$$

Given: $\square + \square + \bigcirc = 13$

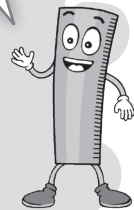
$$\square + \square + 3 = 13$$

$$\square + \square = 10$$

$$\square = 5$$

$$\begin{aligned} \bigcirc + \bigcirc + \square &= 3 + 3 + 5 \\ &= 11 \end{aligned}$$

As soon as the value of a \bigcirc is known, use this value to replace every \bigcirc that appears in the other equation.



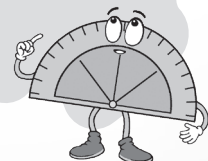
Method 2

Given: $\bigcirc + \bigcirc + \bigcirc = 9$

Given: $\square + \square + \bigcirc = 13$

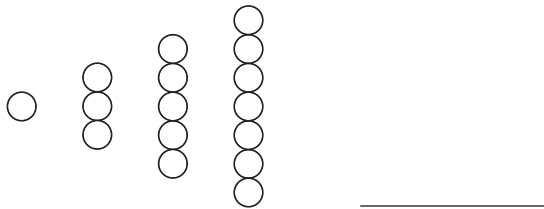
$$\begin{aligned} (\bigcirc + \bigcirc + \square) + (\bigcirc + \bigcirc + \square) &= 9 + 13 \\ &= 22 \\ &= 11 + 11 \end{aligned}$$

$$(\bigcirc + \bigcirc + \square) = 11$$



Do these problems.

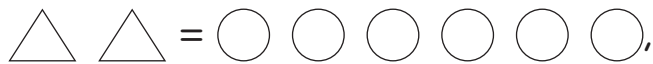
1. (a) Draw the figure that comes next.



(b) What is the next number?

2, 1, 4, 3, 6, 5, 8, 7, 10, 9, _____

2. If $\square \square = \triangle \triangle \triangle$ and



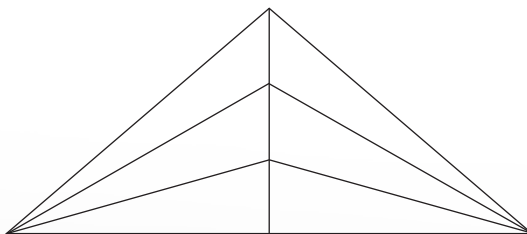
how many \circ s are there in 2 \square s? _____

3. If $1 \star = 2 \circ$

and $1 \circ = 3 \triangle$,

how many \triangle s do 4 stars equal? _____

4. How many triangles are there in the figure?



7. Look at the set of numbers below.

1, 4, 2, 1, 4, 2, 1, 4, 2, 1, 4 ...

(a) What is the 26th number?

(b) What is the total of the first 15 numbers?

8. Isaac has \$5 now. He saves \$2 a day to buy a dictionary. The dictionary costs \$13. How many more days must he save before he can buy the dictionary?



SM