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DATE _____

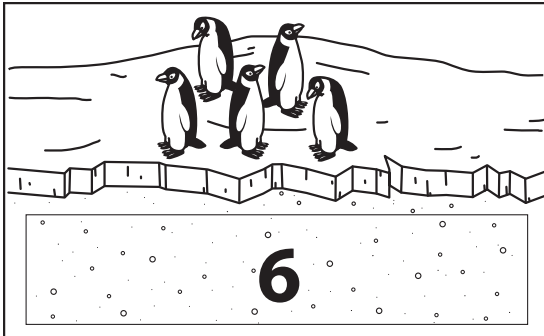


Penguin Problem Solving page 1 of 2

Read and solve each of the problems below. Show your work.

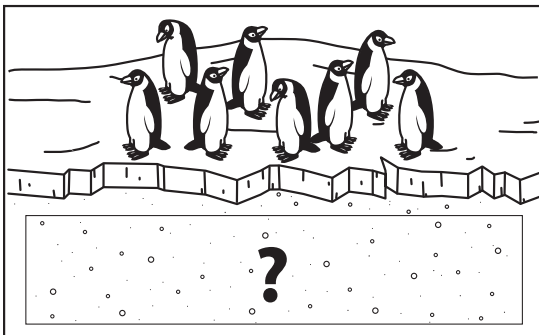
- Use numbers, pictures, or words to help solve the problem.
- Fill in the missing number in the equation when you find the answer.

1 Five penguins are on the ice. Six penguins in the water. How many penguins in all?



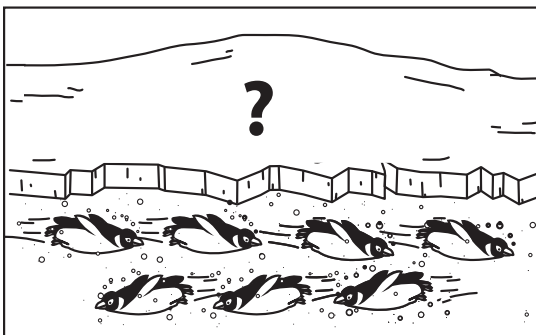
$$5 + 6 = \square \text{ penguins}$$

2 There are 8 penguins on the ice and some more penguins in the water. There are 11 penguins in all. How many penguins are in the water?



$$8 + \square = 11 \text{ penguins}$$

3 There are 13 penguins in all. Seven of them are in the water. How many penguins are hiding behind the hill?



$$\square + 7 = 13 \text{ penguins}$$

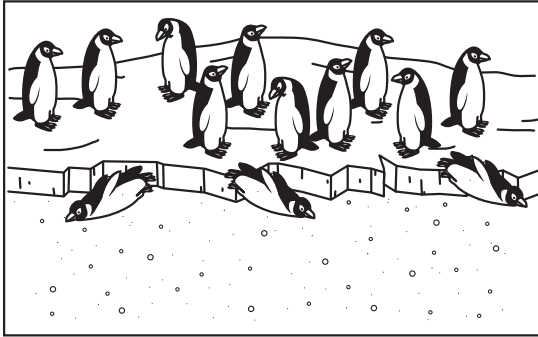
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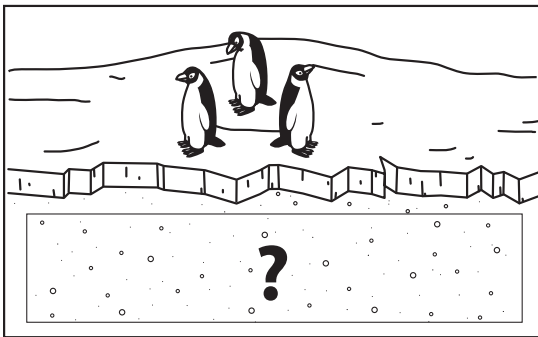
Penguin Problem Solving page 2 of 2

- 4 There were 13 penguins standing on the ice. Three dove into the water. How many penguins were left on the ice?



$$13 - 3 = \square \text{ penguins}$$

- 5 There were 12 penguins standing on the ice. Some of the penguins dove into the water. Now there are only 3 penguins left on the ice. How many penguins dove in?



$$12 - \square = 3 \text{ penguins}$$

- 6 **CHALLENGE** Some penguins were playing on the ice. Ten of them dove into the water. A few seconds later, 6 of those penguins jumped back onto the ice. Now there are 12 penguins on the ice. How many penguins were on the ice to start? Use numbers, pictures, or words to show how you got the answer.

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Equations & Fact Practice page 1 of 2

1 Circle T if the equation is true. Circle F if the equation is false.

ex	$10 + 3 = 13$	T	F	a	$6 + 6 = 12$	T	F
b	$12 = 7 + 5$	T	F	c	$12 - 8 = 4$	T	F
d	$10 - 2 = 6$	T	F	e	$10 = 6 + 4$	T	F
f	$5 + 6 = 6 + 5$	T	F	g	$11 = 3 + 7$	T	F

2 Read the story. Circle T if it could be true. Circle F if it must be false.

a Sara had 8 cars. She got 7 more cars for her birthday. Now she has 15 cars in all. T F

b Max made 13 cookies. His brother ate all the cookies. Max has 3 cookies left. T F

3 Read the story. Circle the matching equation.

a There were 4 bugs in the garden, and then 9 more bugs came. How many bugs in all?

$13 - 4 = 9$

$10 + 3 = 13$

$4 + 4 = 8$

$4 + 9 = 13$

b Fourteen frogs were in the pond. Then 6 frogs hopped away. How many frogs were left?

$14 + 6 = 20$

$14 - 6 = 8$

$14 - 4 = 10$

$12 - 6 = 6$

c There were 12 penguins standing on the ice and 2 penguins in the water. How many more penguins were there on the ice than in the water?

$12 + 2 = 14$

$2 + 8 = 10$

$12 - 2 = 10$

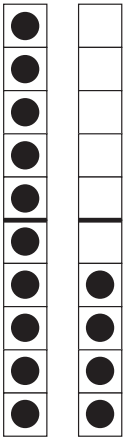
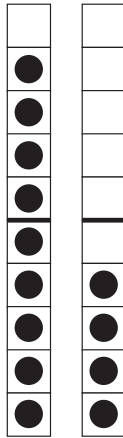
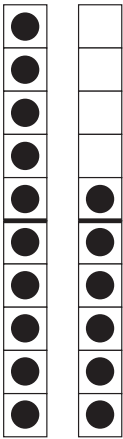
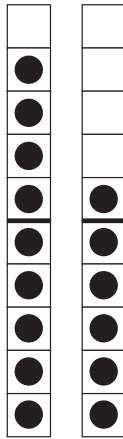
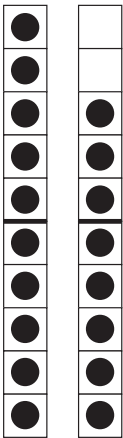
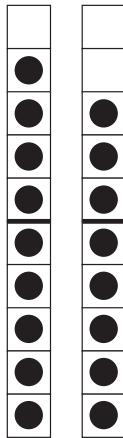
$14 - 12 = 2$

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Equations & Fact Practice page 2 of 2**4** Solve each problem below.

<p>a</p>  <p>$10 + 4 = \underline{\quad}$</p>	<p>b</p>  <p>$9 + 4 = \underline{\quad}$</p>
<p>c</p>  <p>$10 + 6 = \underline{\quad}$</p>	<p>d</p>  <p>$9 + 6 = \underline{\quad}$</p>
<p>e</p>  <p>$10 + 8 = \underline{\quad}$</p>	<p>f</p>  <p>$9 + 8 = \underline{\quad}$</p>

5 Fill in the blanks.

$10 + 0 = \underline{\quad}$

$9 + 0 = \underline{\quad}$

$10 + 3 = \underline{\quad}$

$9 + 3 = \underline{\quad}$

$10 + 1 = \underline{\quad}$

$9 + 1 = \underline{\quad}$

$10 + 7 = \underline{\quad}$

$9 + 7 = \underline{\quad}$

$10 + 2 = \underline{\quad}$

$9 + 2 = \underline{\quad}$

$10 + 5 = \underline{\quad}$

$9 + 5 = \underline{\quad}$

$10 + 9 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

$4 + 10 = \underline{\quad}$

$4 + 9 = \underline{\quad}$

$6 + 10 = \underline{\quad}$

$6 + 9 = \underline{\quad}$

$8 + 10 = \underline{\quad}$

$8 + 9 = \underline{\quad}$

$10 + \underline{\quad} = 17$

$9 + \underline{\quad} = 17$