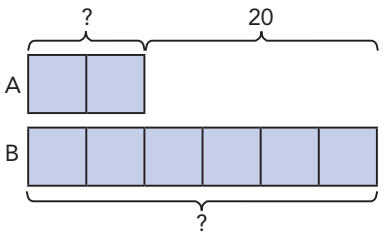
NS
SKILL 16

Name _____ Date _____

Interpret a Comparison Bar Model

Example 1 Given the difference

Find the value of A and B.



STEP 1 The difference between the two bars, 20, is equal to 4 units of a bar. Divide to find the value of a single unit of the bars.

4 units → 20

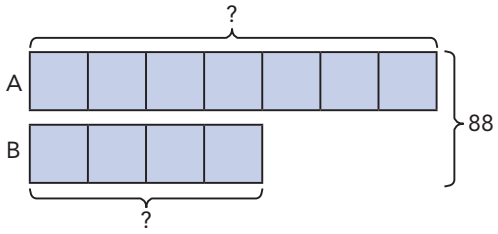
1 unit → $\frac{20}{4}$ = **5**

STEP 2 Count the number of units in each bar. Multiply each number of units by **5**.

Value of A: 2 units → 2 × **5** = 10
Value of B: 6 units → 6 → **5** = 30

Example 2 Given the sum

Find the value of A and B.



STEP 1 The sum of the two bars, 88, is equal to 11 units of the bars. Divide to find the value of a single unit of the bars.

11 units → 88

1 unit → $\frac{88}{11}$ = **8**

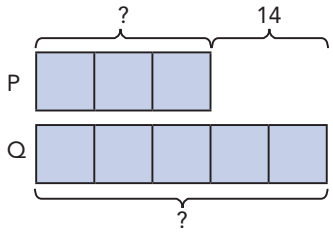
STEP 2 Count the number of units in each bar. Multiply each number of units by **8**.

Value of A: 7 units → 7 × **8** = 56
Value of B: 4 units → 4 × **8** = 32

Quick Check

Find the values of P and Q.

1



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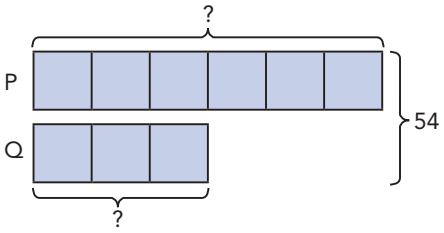
2



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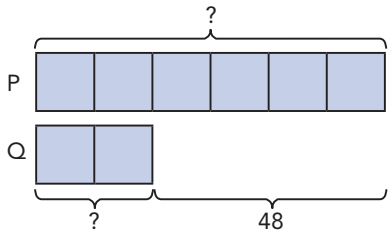
Practice on Your Own

Find the values of P and Q.

3



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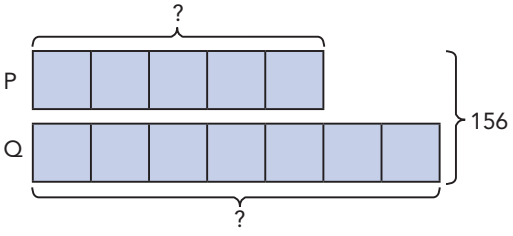
4



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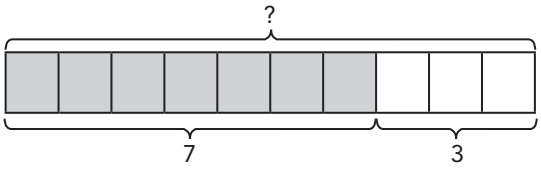
NS
SKILL 28

Name _____ Date _____

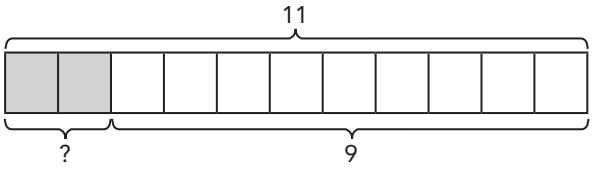
Use Bar Models to Show the Four Operations

Example 1 Addition



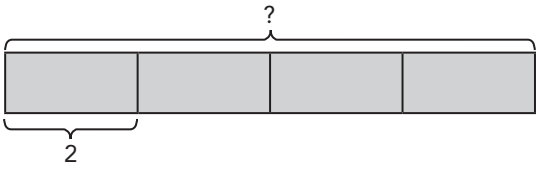
? = 7 + 3
= 10

Example 2 Subtraction



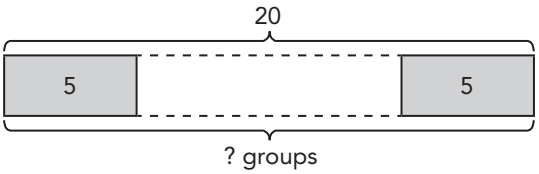
? = 11 − 9
= 2

Example 3 Multiplication



? = 4 × 2
= 8

Example 4 Division



? = 20 ÷ 5
= 4

Quick Check

Draw a bar model to show each operation.

1. 15 − 4

2. 13 + 4

3. 30 ÷ 6

4. 7 × 4

Practice on Your Own

Draw a bar model to show each operation. Write the result of each operation.

5. 33 ÷ 3

_____

5. 11 + 7

_____

7. 5 × 7

_____

8. 19 − 9

_____