Additional Practice

Homework #42 Front and Back

Determine whether the given value of the variable is a solution.

1. $9 + x = 21$ for $x = 11$ _____

2. $n - 12 = 5$ for $n = 17$ _____

3. $25 \cdot r = 75$ for $r = 3$ _____

4. $72 \div q = 8$ for $q = 9$ _____

5. $28 + c = 43$ for $c = 15$ _____

6. $u \div 11 = 10$ for $u = 111$ _____

7. $\dfrac{k}{8} = 4$ for $k = 24$ _____

8. $16x = 48$ for $x = 3$ _____

9. $73 - f = 29$ for $f = 54$ _____

10. $67 - j = 25$ for $j = 42$ _____

11. $39 \div v = 13$ for $v = 3$ _____

12. $88 + d = 100$ for $d = 2$ _____

13. $14p = 20$ for $p = 5$ _____

14. $6w = 30$ for $w = 5$ _____

15. $7 + x = 70$ for $x = 10$ _____

16. $6 \cdot n = 174$ for $n = 29$ _____

Replace each ? with a number that makes the equation correct.

17. $5 + 1 = 2 + \boxed{?}$ _____

18. $10 - \boxed{?} = 12 - 7$ _____

19. $\boxed{?} \cdot 3 = 2 \cdot 9$ _____

20. $28 \div 4 = 14 \div \boxed{?}$ _____

21. $\boxed{?} + 8 = 6 + 3$ _____

22. $12 \cdot 0 = \boxed{?} \cdot 15$ _____

23. Carla had $15. After she bought lunch, she had $8 left. Write an equation using the variable x to model this situation. What does your variable represent?

_____

_____

24. Seventy-two people signed up for the soccer league. After the players were evenly divided into teams, there were 6 teams in the league. Write an equation to model this situation using the variable x.

_____

_____

Problem Solving

Use the table to write and solve an equation to answer each question. Then use your answers to complete the table.

1. A hippopotamus can stay underwater 3 times as long as a sea otter can. How long can a sea otter stay underwater?

   _____

   _____

2. A seal can stay underwater 10 minutes longer than a muskrat can. How long can a muskrat stay underwater?

   _____

   _____

3. A sperm whale can stay underwater 7 times longer than a sea cow can. How long can a sperm whale stay underwater?

   _____

   _____

How Many Minutes Can Mammals Stay Underwater?	
Hippopotamus	15
Human	
Muskrat	
Platypus	10
Polar bear	
Sea cow	16
Sea otter	
Seal	22
Sperm whale	

Circle the letter of the correct answer.

4. The difference between the time a platypus and a polar bear can stay underwater is 8 minutes. How long can a polar bear stay underwater?

   A 1 minute

   B 2 minutes

   C 3 minutes

   D 5 minutes

5. When you divide the amount of time any of the animals in the table can stay underwater by itself, the answer is always the amount of time the average human can stay underwater. How long can the average human stay underwater?

   F 6 minutes

   G 4 minutes

   H 2 minutes

   J 1 minute