

Name \_\_\_\_\_

## Fractions, Decimals & Deep-Water Reasoning

**Directions:** Work carefully with fractions and decimals. Remember to do parentheses and multiplication/division before addition/subtraction. Show all your steps and simplify answers where possible.

1. **Decimal Dive:**  $(2.4 + 3.6) \div 2 = \underline{\hspace{2cm}}$

2. **Sunken Treasure Weight:** A gold coin weighs 12.5 g. What's the total weight of 8 coins?

3. **Hidden Fraction Puzzle:**  $\frac{1}{2} + \frac{3}{4} \times 2 = \underline{\hspace{2cm}}$

4. **Pearl Collection:** A diver collects 4.5 pearls per dive. After 6 dives, she gives away 5 pearls. How many pearls does she still have?

5. **Compare the Depths:**  $A = 4.2 + 3.8$      $B = 9.1 - 1.2$

Which is greater? \_\_\_\_\_

6. **Cavern Equation:**  $(1.2x + 3.6) = 9.6$     ( $x = \underline{\hspace{2cm}}$ )

7. **Fraction Challenge:**  $(\frac{2}{3} \times 6) + \frac{1}{4} = \underline{\hspace{2cm}}$

8. **Pressure Puzzle:** The air tank holds 9.6 liters. Each dive uses 1.2 liters. After 5 dives, how many liters remain?

9. **Decimal Equation:**  $x \div 0.5 = 18$     ( $x = \underline{\hspace{2cm}}$ )

10. **Mixed Operation:**  $(5.4 - 2.1) \times 3 = \underline{\hspace{2cm}}$

11. **Treasure Box Math:**  $(\frac{3}{4} \text{ of } 48) + 12 = \underline{\hspace{2cm}}$

12. **Balance Equation:**  $(0.6x - 1.8) = 4.2$     ( $x = \underline{\hspace{2cm}}$ )

13. **Fraction to Decimal:**  $(\frac{1}{2} + 0.25) \times 4 = \underline{\hspace{2cm}}$

14. **Gem Trade:** Each gem costs \$3.75. You buy 5 gems and get \$2.50 off. What's the total cost?

15. **Order of Operations:**  $(4.8 + 3.2) \div 2 \times 1.5 = \underline{\hspace{2cm}}$

